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**HELICOPTER OPERATIONS** - This Sikorsky S55 is one of the Commission's fleet of seven helicopters used in surveying, in maintaining transmission lines and spraying rights of way for the control of wood growth, and for transporting men and equipment to remote or inaccessible areas.

The further use of the Sikorsky S55 for sky-wire stringing and for transporting aluminum transmission towers to line locations is now proposed.









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Ontario.

# (The) Hydro-Electric Power Commission of Ontario

53-54

*Fifty-third*

## Annual Report

*for the Year*

1960 - 61

This Report is published pursuant to The Power Commission Act,  
Revised Statutes of Ontario, 1960, Chapter 300, Section 10.



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# THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

December 1960

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JAMES S. DUNCAN, C.M.G., LL.D.

*Chairman*

W. ROSS STRIKE, Q.C.

*1st Vice-Chairman*

HON. ROBERT W. MACAULAY, Q.C., M.L.A.

*2nd Vice-Chairman*

LT.-COL. A. A. KENNEDY, D.S.O., E.D.

*Commissioner*

D. P. CLIFF

*Commissioner*

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ERNEST B. EASSON

*Secretary*

---

J. M. HAMBLEY

*General Manager*

H. A. SMITH

*Assistant General Manager  
Engineering*

E. H. BANKS

*Assistant General Manager  
Finance*

I. K. SITZER

*Assistant General Manager  
Production and Marketing*

C. B. C. SCOTT

*Assistant General Manager  
Personnel*

H. J. SISSENS

*Assistant General Manager  
Services*

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, MAY 23, 1961

THE HONOURABLE JOHN KEILLER MACKAY, D.S.O., V.D., LL.D.

*Lieutenant-Governor of Ontario*

SIR:

I have the honour to present the Annual Report of The Hydro-Electric Power Commission of Ontario for the year ended December 31, 1960.

The achievements of 1960 must be assessed in the light of the tensions and uncertainties that clouded the international scene, and in relation to the many evidences of economic dislocation in our own Canadian affairs. The slackening in the rate of national economic progress and the restrictive influence of rising unemployment were reflected in the Commission's operations, and to the extent that they were reflected, the latter part of 1960 failed to justify the promise given in the early months of the year.

Power requirements reached a new peak of 5,745,700 kilowatts, 3.4 per cent above the peak for 1959. It is true that this increase hardly bears comparison with the best in the past ten years, and that it falls well short of the long-term rate of growth of 6.6 per cent per annum; in fact it is the lowest annual increase since 1949.

In the light of the mild recession we have been experiencing, the results for 1960 are no occasion for anxiety. Indeed, there is cause for some satisfaction in the fact that in a year of so-called rolling economic adjustment we sent out over our transmission networks a total of 37.7 billion kilowatt-hours of electric energy, generated and purchased, 6.3 per cent more than in 1959.

The capacity of the power resources available to meet December peak loads was 6,526,150 kilowatts. The capacity available to the combined networks of the Southern Ontario System and the Northeastern Division of the Northern Ontario Properties left a margin of reserve of under 12 per cent to meet load growth and unforeseen contingencies. The margin would have been much smaller had there not been a marked decline in the uranium mining industry. In the Northwestern Division the termination of a large dredging operation and a slackening in the rate of industrial growth, particularly in the pulp and paper industry, brought loads considerably below the forecast levels on which the Commission's power development program was based. The forecasts reflected estimates of power requirements made by the Commission's customers, which, in the light of subsequent events, proved too optimistic. Reserves of power in this Division are therefore greater than normally required. There are evidences, however, that this is a temporary situation, and that the next few years will see new industrial developments in this area bringing loads back to the long-term trend of growth.

The Commission's net primary revenue for the year amounted to \$229.2 million as compared with \$212.6 million in 1959, an increase of 7.8 per cent. The cost of providing service to the cost-contract municipal utilities was \$1,765,391 less than the amount billed at interim rates and this net amount was returned to the utilities in year-end adjustments.

The Commission has striven continuously over the years to stem the tide of inflationary pressures. Like other business enterprises, however, it has been confronted with increased interest rates, rising costs of labour and materials, and higher taxation, the cumulative effects of which must ultimately be translated into increased rates for power. In 1960, higher interim rates were introduced for the majority of the municipal utilities, rates were increased for certain direct industrial customers served by the Southern Ontario System, and towards the end of the year a general increase was levied for service to direct industrial customers in the Northern Ontario Properties. This general increase was the first in nearly eight years, and the resulting increase in revenue in 1960 was barely sufficient to meet the rising costs of service to these customers. The cost of service to certain cost-contract municipal utilities in the Northern Ontario Properties formerly served by the Thunder Bay System was substantially greater than the revenues they provided, and it was again necessary to make withdrawals from the reserve for stabilization of rates and contingencies held specifically for their benefit.



Expenditures on new facilities were kept at the lowest level since 1955, which, together with other measures taken to conserve working capital, enabled the Commission to reduce its borrowings from \$125 million in 1959 to \$100 million in 1960. In view of the continuing high interest rates, every effort will be made to restrict borrowings in 1961 to the same or even lower levels. During 1960, economies were achieved through the reduction of inventories and through improved efficiency in various segments of the Commission's operations.

The investment in fixed assets at cost rose from \$2,248 million to \$2,361 million. Approximately 60 per cent of the capital expenditure during 1960 was for generating facilities. These include the new thermal-electric stations at Lakeview and Thunder Bay, major additions to the Richard L. Hearn Generating Station, the Nuclear Power Demonstration plant due to go into service in 1961, and developmental and initial construction work for the Douglas Point Nuclear Power Station. They also include five hydraulic projects in northern Ontario which form part of the program for developing approximately 2 million kilowatts of hydro-electric power over a period of several years. One of these five projects, Red Rock Falls Generating Station on the Mississagi River, is now in service, the first of two 20,000-kilowatt units being placed in service in November 1960 and the second in January 1961. The others are Otter Rapids Generating Station on the Abitibi River, and Little Long, Harmon, and Kipling Generating Stations on the Mattagami River. Later this year, construction will begin on the first major 460-kv transmission line in North America, which will bring power ultimately at this voltage from these last four stations in the James Bay watershed to load centres in southern Ontario.

For more than half a century the customers served by this Commission and its associated utilities have been world leaders in the use of many types of household appliances, and in the quantity of electric energy consumed. There is a wide diversity in the daily use of these appliances, and since the cost of electricity supplied at the retail level does not increase in proportion to the customer's use, this high energy consumption has been a major factor in making possible the Commission's unusually favourable rates. The maintenance of these favourable rates is dependent, however, on a continuing high level of consumption of electricity per customer.

This end must be achieved today under greatly changed competitive conditions. During the past ten years the Commission's major problem was to provide sufficient power capacity to meet the requirements of the homes, farms, and industries in Ontario. Today the Commission, in common with the electrical industry in general, faces keen competition from many other commodities and services attractive to the customer, and the Commission, in particular, must compete with natural gas being offered at highly promotional rates. For this reason the Commission, in co-operation with the municipal utilities and the entire electrical industry, has embarked on a comprehensive program to make its customers increasingly aware of the advantages and economies to be derived from using the wide range of new and improved electrical appliances and equipment being produced by manufacturers.

The Commission's rural distribution facilities, at the end of 1960, were serving 499,291 customers over 47,896 miles of primary distribution line. These facilities make the benefits of electrical living available to more than 95 per cent of all the farms in Ontario. Over ten thousand farms in northern Ontario are now being supplied with electric power. Considering the nature and extent of the area served and the sparsity of the population, the Commission's record of rural service is unsurpassed anywhere in the world.

Evidences of returning confidence in certain sections of the business community give rise to hopes for a modest upturn in the economy before the end of 1961. The Commission, with its construction program of necessity already under way to meet power requirements for several years ahead, is making a significant contribution to this business recovery.

May I pay a sincere tribute to the members of the staff for their continued loyalty. Their skilful, energetic, and conscientious effort in serving the Commission is indeed a worthy contribution to the Province as a whole. To the executive officers of the organization and also to my fellow Commissioners I express my sincere thanks for the assistance they always so generously provide.

Respectfully submitted,

JAMES S. DUNCAN,  
*Chairman.*



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FIFTY-THIRD ANNUAL REPORT  
OF  
**The Hydro-Electric Power Commission  
of Ontario**

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**FOREWORD**

**T**HE Hydro-Electric Power Commission of Ontario is a corporate entity, a self-sustaining public enterprise endowed with broad powers with respect to electricity supply throughout the Province of Ontario. Its authority is derived from an Act of the Provincial Legislature passed in 1906 to give effect to recommendations of earlier advisory commissions that the water powers of Ontario should be conserved and developed for the benefit of the people of the Province. It now operates under The Power Commission Act (7-Edward VII, c. 19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified from time to time (Revised Statutes of Ontario, 1960, c. 300). The Commission may have from three to six members, all of whom are appointed by the Lieutenant-Governor in Council. One commissioner must, and a second commissioner may, be a member of the Executive Council of the Province of Ontario.

### **Systems and the Power Supply**

For the financial and administrative purposes of the Commission, the Province is divided into two parts. The roughly triangular part lying south of Lake Nipissing and the French and Mattawa Rivers is served by the Southern Ontario System, a fully integrated power system combining the Niagara, Georgian Bay, and Eastern Ontario Divisions. The system is operated on a co-operative basis predominantly for the benefit of more than three hundred municipal electrical utilities supplied with power at cost, but in part also for the benefit of the Rural Power District which it serves. The northern part of the Province is served by the Northern Ontario Properties, held and operated for the most part in trust for the Province, but operated in part also for the benefit of a group of utilities supplied with power at cost. The Northern Ontario Properties include a Northeastern and a Northwestern Division. Each of these two divisions is an integrated power system, the former being interconnected with the Southern Ontario System.

In addition to administering the enterprise over which it has direct control, the Commission exercises certain regulatory functions with respect to the group of municipal electrical utilities which it serves. In order to provide convenient and expeditious service in this dual function of regulation and supply, the Commission has subdivided its province-wide operations into nine regions, seven in the south and two in the north, with regional offices located in nine major municipalities. At present the two northern regions coincide with the two northern divisions.

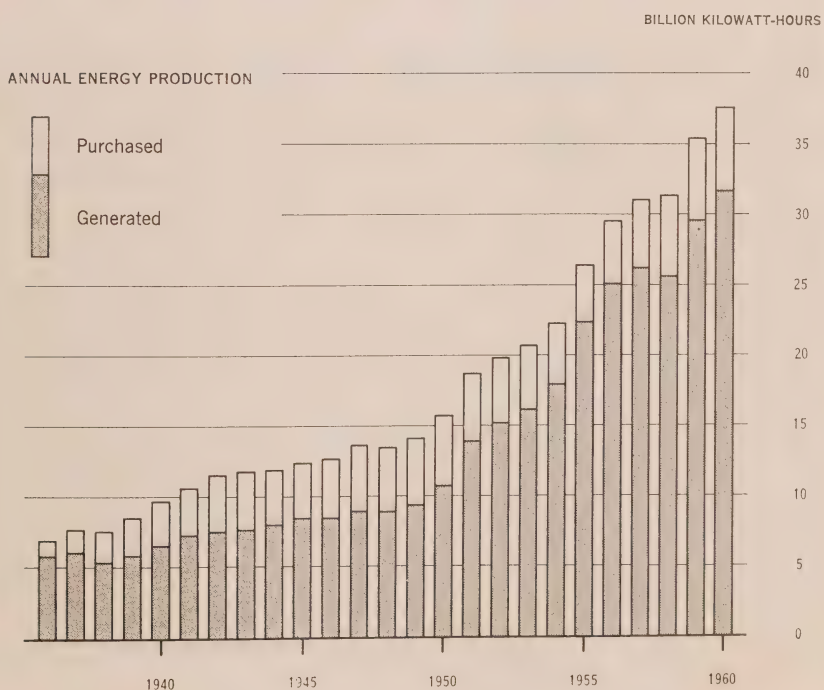
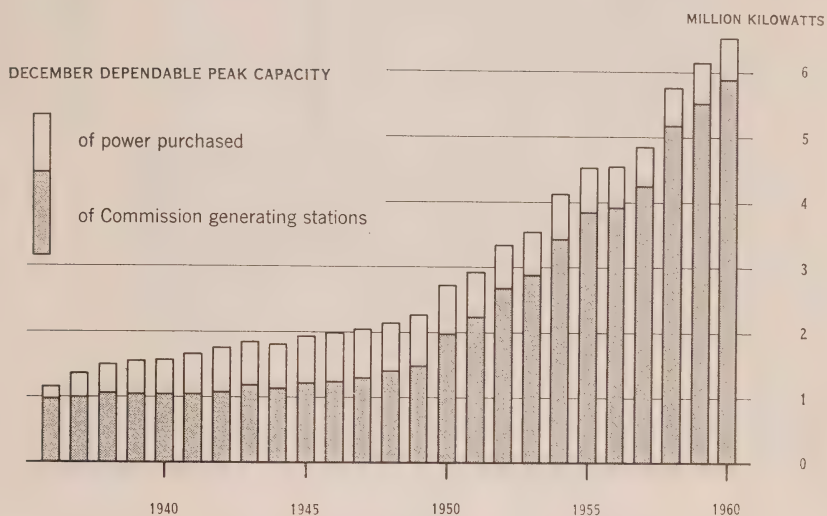
The Commission is primarily concerned with the provision of electric power by generation or purchase and its delivery in bulk either for resale, or for use in the industrial operations of certain customers served directly. Power



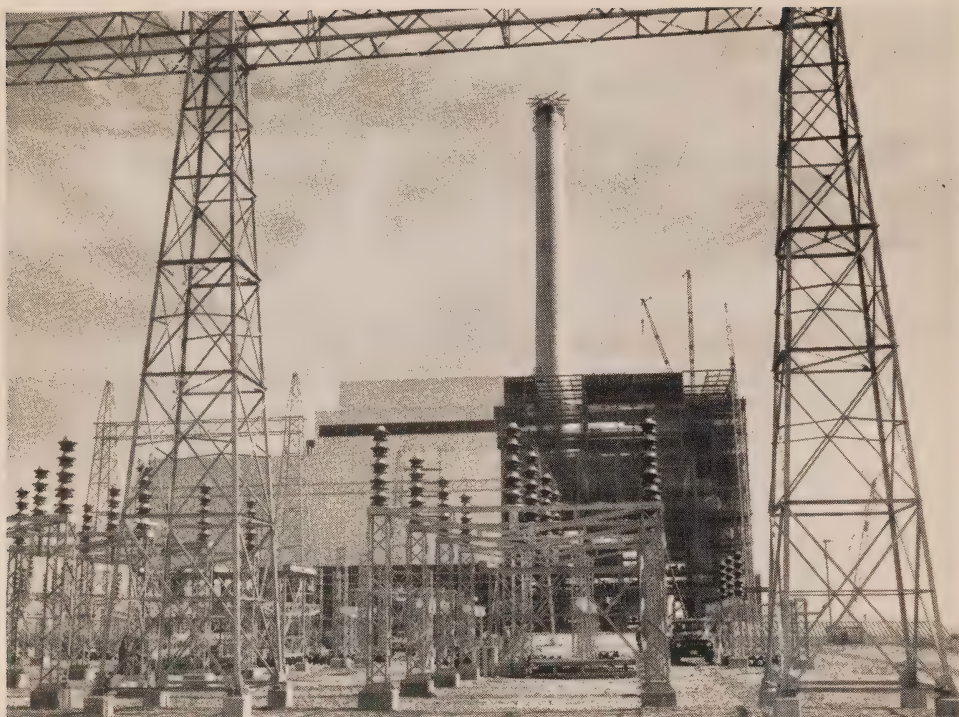
**RED ROCK FALLS GENERATING STATION** — The 952-foot power dam spans the Mississagi River at a point 15 miles down stream from George W. Rayner Generating Station.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

TOTAL POWER RESOURCES AND ENERGY PRODUCTION







**LAKEVIEW GENERATING STATION** — The powerhouse structure, equivalent in height to a 20-storey building, and the 493-foot chimney are framed in part of the switchyard structure. The first of the four 300,000-kilowatt units to be installed at the station will be placed in service in 1961.

for resale is delivered to the associated municipal electrical utilities, and to certain interconnected systems, including a number of independent municipal distribution systems, operating within or beyond the Provincial boundaries. The industrial customers served directly include mines and industries in unorganized areas. Some power users located within areas served by the municipal utilities are also served by the Commission since their power requirements may be so large or may create supply conditions so unusual as to make service by the local municipal utilities impracticable. In total, bulk delivery for resale and for industrial use accounts for about 90 per cent of the Commission's energy sales. The remaining 10 per cent of the Commission's sales are made to ultimate customers either in rural areas served on behalf of the townships by the Commission's rural distribution facilities, or in a relatively small group of municipalities served by Commission-owned local distribution systems. In general, however, retail service to ultimate customers in most cities and towns, in many villages, and in certain populous township areas is supplied by the associated electrical utilities, owned and operated by local commissions and functioning under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act.

#### **Financial Features**

The basic principle governing financial operations of the undertaking and its associated municipal electrical utilities is that service is provided at cost. In the Commission's operations, cost of service includes payment for power

purchased, charges for operating and maintaining the power systems, and related fixed charges. The fixed charges represent interest on debt, reserve provisions for depreciation and for contingencies and rate stabilization, and the further provision of a sinking fund reserve for retiring the Commission's long-term debt. The municipal utilities operating under cost contracts with the Commission are billed throughout the year at interim rates based on estimates of the cost of service. At the end of the year, when the actual cost of service is established, the necessary balancing (debit or credit) adjustments are made in their accounts. Retail rates for the municipal utilities are established at levels calculated to produce adequate revenue to meet cost. The Commission's retail rate structure for rural service other than industrial power service has been uniform throughout the Province since 1944.

The enterprise from its inception has been self-sustaining. The Province, however, guarantees the payment of principal and interest on all bonds issued by the Commission and held by the public. In addition, the Province has materially assisted the development of agriculture by contributing under The Rural Hydro-Electric Distribution Act toward the capital cost of extending rural distribution facilities.

#### **Annual Summary — 1960**

During 1960 the principal construction work was carried out at six locations. Two were hydro-electric developments in northern Ontario, Red Rock Falls on the Mississagi River and Otter Rapids on the Abitibi River. The others were Lakeview and Richard L. Hearn Generating Stations in the Toronto area, Thunder Bay Generating Station in Fort William, and the Nuclear Power

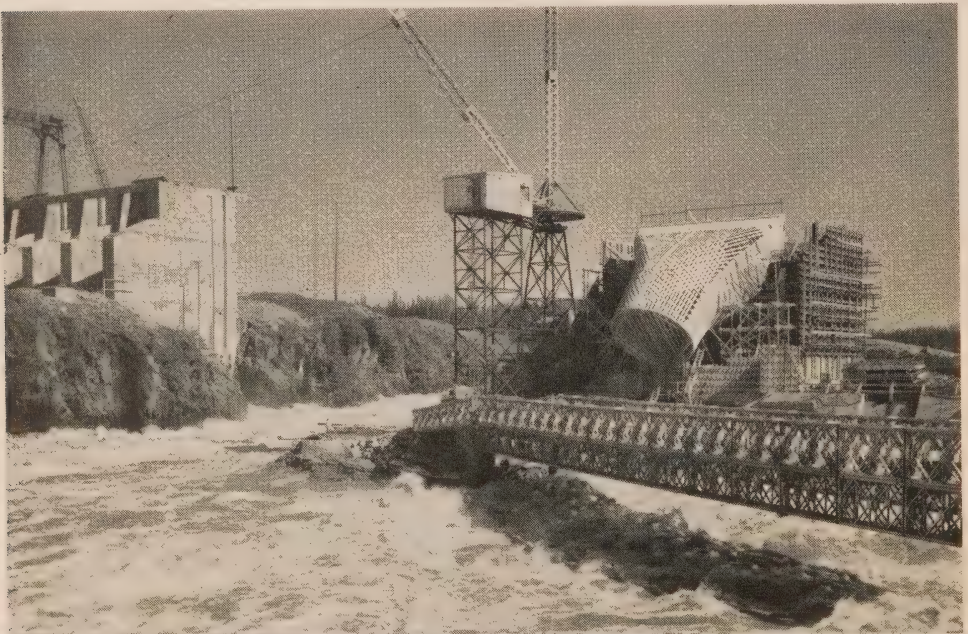


**THUNDER BAY GENERATING STATION** — Against a background of the ice-bound waters of Thunder Bay, the almost completed 100,000-kilowatt thermal-electric station is a striking landmark on the north shore of the Mission River in Fort William.



	1951
Dependable peak capacity, December.....	thousand kw 2,942
Primary power requirements, December.....	thousand kw 3,109
Annual energy generated and purchased.....	million kwh 18,811
Primary.....	million kwh 17,544
Secondary.....	million kwh 1,267
Annual energy sold by the Commission.....	million kwh 16,632
Annual revenue of the Commission (net after refunds).....	million \$ 102
Fixed assets at cost.....	million \$ 1,020
Gross expenditure on fixed assets in year.....	million \$ 165
Total assets, less accumulated depreciation.....	million \$ 1,099
Long-term debt.....	million \$ 690
Transmission line.....	circuit miles 14,280
Primary rural distribution line.....	circuit miles 38,198
Average number of employees in year.....	21,174
Number of associated municipal electrical utilities.....	324
Ultimate customers served by the Commission and municipal utilities.....	thousands 1,249

Demonstration plant near Chalk River on the Ottawa River. Four other projects added to the capital construction program during the year were the Douglas Point Nuclear Power Station near Kincardine and three hydraulic developments on the Mattagami River in the James Bay watershed to be known as Little Long, Harmon, and Kipling Generating Stations.



**OTTER RAPIDS GENERATING STATION** — In April 1960 the upstream cofferdam in the western channel was breached, permitting the river to flow through the completed diversion ports as well as down the eastern channel. The formwork for the transition section and part of the headworks shown was constructed on the island separating the two channels.



**Summary 1951-1960**

1952	1953	1954	1955	1956	1957	1958	1959	1960
3,353	3,565	4,135	4,530	4,552	4,844	5,761	6,155	6,526
3,278	3,488	3,702	4,229	4,514	4,784	5,139	5,556	5,746
19,974	20,912	22,386	26,555	29,523	31,101	31,450	35,465	37,709
18,774	19,951	20,788	23,258	25,537	27,405	28,382	31,546	32,717
1,200	961	1,598	3,297	3,986	3,696	3,068	3,919	4,992
17,728	18,587	19,928	23,909	26,828	28,318	28,633	32,058	34,317
112	136	143	162	183	197	198	213	229
1,177	1,355	1,469	1,573	1,733	1,931	2,108	2,248	2,361
163	184	133	115	173	209	191	154	132
1,266	1,491	1,653	1,788	2,011	2,255	2,423	2,548	2,660
862	1,040	1,162	1,209	1,392	1,573	1,691	1,786	1,844
14,813	15,251	15,785	16,115	16,489	16,717	17,499	17,713	17,831
40,277	41,589	42,540	43,851	44,492	45,375	46,438	47,351	47,896
19,570	19,242	18,750	17,278	18,075	19,597	17,701	15,866	15,179
327	332	338	343	350	351	354	354	354
1,316	1,390	1,467	1,540	1,612	1,674	1,757	1,830	1,881

The first of two units at Red Rock Falls Generating Station was placed in service in November 1960, and like Unit No. 6 at Richard L. Hearn Generating Station, which was placed in service in January 1960, contributed to the increase in dependable peak capacity for the year. Unit No. 7 at Richard L. Hearn Generating Station was placed in service but was not considered available at the time of the system peak in December. The 20,000-kilowatt Nuclear Power Demonstration unit is expected to be in operation during the summer of 1961 and to run under full power by the end of 1961. Meanwhile a site is being developed for Douglas Point Nuclear Power Station, between Kincardine and Port Elgin on the shore of Lake Huron.

Net revenue from sales of primary power and energy rose by 7.8 per cent during 1960. Revenue from the sale of secondary energy amounting to \$9,191,226 was applied towards the reduction of the cost of power. Total kilowatt-hour sales were 7.0 per cent greater than in 1959.

**GUIDE TO THE REPORT**

Details of the Commission's activities which have been briefly summarized in the foregoing paragraphs are given in the six sections and four appendices of the Report which follow. Operations, finance, and customer relations are the subjects of the first three sections and their related appendices. The narrative in Section I dealing with the production, purchase, and delivery of power is supplemented in the text by reports of weather conditions, maintenance, communications, and forestry, all of which are related to operations. Supplementary tables are in Appendix I. Section II includes the Commission's balance sheets,

statements of financial operations, and tables showing the funded debt and advances from the Province of Ontario. Appendix II includes supporting schedules and accounts, in addition to the statements of reserves, sinking fund equity, and cost of power. In Section III, consideration is given first to the wholesale operation of supplying power to municipal electrical utilities and to certain interconnected systems for resale, and second to service to certain industrial customers supplied directly by the Commission. The supply of power in wholesale quantities to the rural operating areas is then briefly discussed under the heading Rural Electrical Service. This commentary is immediately followed by a discussion of retail aspects of service to ultimate customers served by the Commission in these areas. Supplementary information on rural service is to be found in Appendix III. Another subsection of Section III, in the form of reports from the regions, deals with certain activities relative to service in municipal utilities. Many of these activities have involved participation by, or the assistance of, members of the Commission's staff.

Engineering and construction activities are discussed in the two sections that follow. Section IV deals with the planning and construction of facilities for the delivery of power. It includes descriptions of the more important construction projects and statistics relative to these and other facilities for the generation, transformation, and delivery of power. Section V contains reports on the progress of some of the investigations being conducted by members of the Commission's Research Division.

Section VI deals with aspects of employee relations, training, and staff administration. Appendix IV lists Orders in Council and legislation pertaining to the Commission's affairs.

A large part of the Report is devoted to aspects of retail service to ultimate customers, especially that provided by the municipal electrical utilities. The commentary on these activities and the statistical tables applicable to them are brought together in a supplement to the Report entitled Municipal Electrical Service beginning on page 163. The complete municipal service supplement includes four statements: (1) Statement "A"—balance sheets, (2) Statement "B"—operating statements, (3) Statement "C"—rates, and (4) Statement "D"—other statistical information relating to the municipal systems. As the service rendered by the Commission-owned local systems is comparable to that provided by the municipal utilities, the local systems are included in the statistical summaries in the municipal supplement and are also listed in Statements "C" and "D".

## SECTION I

### OPERATION OF THE SYSTEMS

THE total increase in primary power requirements throughout the Commission's systems was relatively small during 1960, reflecting the general slackening in the rate of growth of the Canadian economy. Primary peak demands, all systems, were 3.4 per cent greater in December 1960 than in December 1959. Although by general industrial standards an increase of this magnitude might be considered satisfactory, it did fall short by a considerable margin of the long-term (1922-1960) rate of increase of 6.6 per cent per year.

During the period intervening between the annual primary peaks in December 1959 and December 1960, two 200,000-kilowatt units at Richard L. Hearn Generating Station and one 20,000-kilowatt unit at Red Rock Falls Generating Station were placed in service. Unit No. 7, one of the two new units at Richard L. Hearn Generating Station, was not available at the time of system peak in December. Its exclusion from dependable peak capacity figures was



POWER SUPPLY STATISTICS—1960  
(Figures for 1959 and Per Cent Change in *Italic Type*)

		Southern Ontario System	Northern Ontario Properties		Total
			NORTH- EASTERN DIVISION	NORTH- WESTERN DIVISION	
Resources					
Dependable peak capacity					
—December	kw	5,558,750	371,500	595,900	6,526,150
	kw	5,213,700	345,400	595,600	6,154,700
		6.6%	7.6%	0.1%	6.0%
Requirements					
PRIMARY					
Peak—Annual maximum	kw	4,772,583	551,661	433,274	5,745,682*
	kw	4,578,541	550,067	450,748	5,556,474*
		4.2%	0.3%	—3.9%	3.4%
Energy—Total annual	kwh	26,321,825,289	3,636,699,913	2,759,000,194	32,717,525,396
	kwh	25,226,267,417	3,559,611,260	2,760,792,799	31,546,671,476
		4.3%	2.2%	—0.1%	3.7%
Loads					
PRIMARY AND SECONDARY					
Peak—Annual maximum	kw	5,031,545	552,053	574,328	6,157,534*
	kw	4,913,941	550,067	554,196	6,018,204*
		2.4%	0.4%	3.6%	2.3%
Energy—Total annual	kwh	30,547,653,589	3,768,375,431	3,392,853,908	37,708,882,928
	kwh	28,574,335,017	3,615,319,810	3,275,759,457	35,465,414,284
		6.9%	4.2%	3.6%	6.3%
PRIMARY ONLY					
Energy—For use in Ontario	kwh	25,924,170,889	3,636,699,913	2,759,000,194	32,319,870,996
	kwh	24,824,180,417	3,558,196,571	2,760,792,799	31,143,169,787
		4.4%	2.2%	—0.1%	3.8%
—Total annual	kwh	26,321,728,089	3,636,699,913	2,759,000,194	32,717,428,196
	kwh	25,226,264,417	3,559,611,260	2,760,792,799	31,546,668,476
		4.3%	2.2%	—0.1%	3.7%

\*These annual maxima are the arithmetic sums of the three non-coincident system peaks in December. In the two northern divisions the annual maximum does not necessarily occur in December.

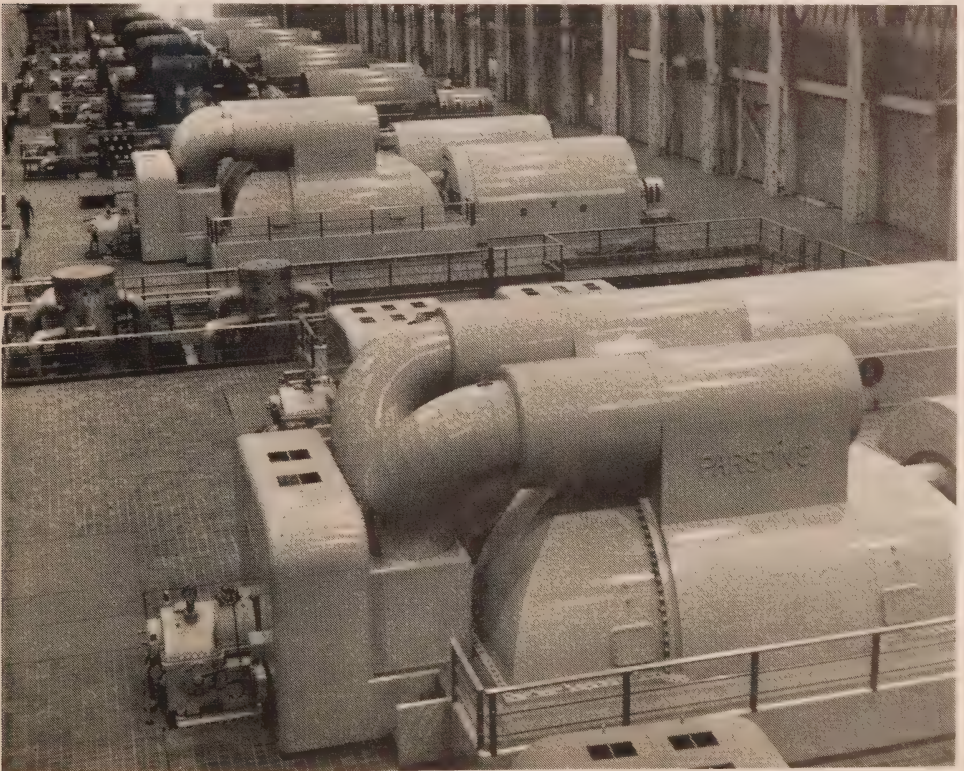
offset by the availability of Unit No. 5, which had been similarly out of service in December 1959. The addition of new generating units, coupled with adjustments in the calculated dependable peak capacities of other generating stations, resulted in an increase in the all-system dependable peak capacity of 371,450 kilowatts, bringing the total to 6,526,150 kilowatts at the end of 1960. Almost the entire increase in capacity was on the interconnected networks of the Southern Ontario System and the Northeastern Division where, with the small concurrent increase in demands, it resulted in an increase in the combined reserve capacity from 8.4 per cent of primary peak demand at the end of 1959 to 11.4

per cent at the end of 1960. In the Northwestern Division, where loads, particularly in the industrial sector, failed to grow at the expected rate during 1960, the reserve continues to be above normal.

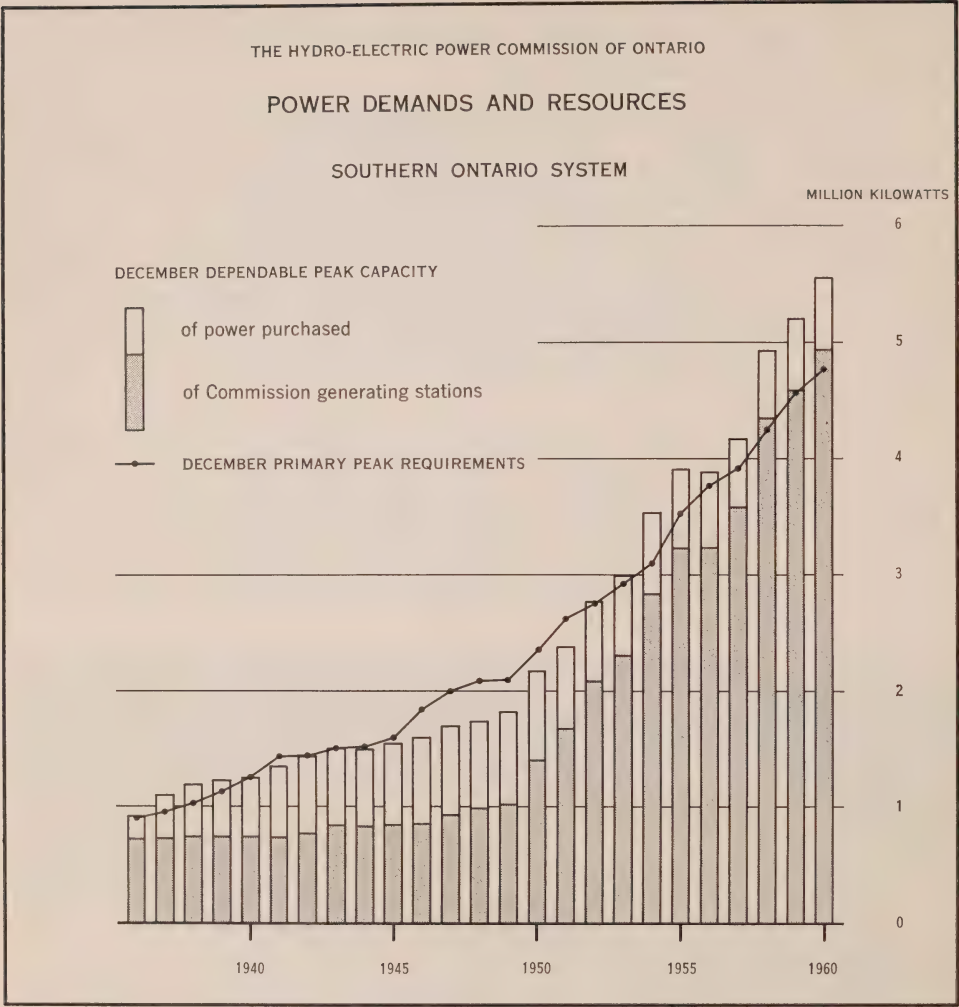
The net output of all resources during 1960 was 37.7 billion kilowatt-hours. Of this amount, 31.5 billion kilowatt-hours were produced by the Commission's hydro-electric generating stations and 0.2 billion kilowatt-hours by its thermal-electric and diesel-electric stations; the balance was purchased.

There was little requirement for the generation of thermal-electric energy during 1960, owing in part to favourable stream-flows, in part to the level of demand and the availability of economical assistance from the Commission's sources of purchased power. However, these circumstances cannot be expected to continue indefinitely and requirements for thermal-electric energy may increase sharply at any time.

An Operations Research team has been working since 1959 on the complex problem of efficiently scheduling the use of all major power resources, both thermal and hydraulic. Under the program to be introduced in 1961, the Commission's Univac II computer will prepare daily loading schedules for all major power sources, taking into account hour by hour such diverse factors as thermal and hydraulic efficiencies, transmission losses, power purchase commitments, and revenue from secondary sales.



**RICHARD L. HEARN GENERATING STATION** — The fifth and sixth units at Richard L. Hearn Generating Station are shown in the foreground. Each has an installed capacity of 200,000 kilowatts. By March 1961, these and two further units of similar capacity were in service, bringing the total installed capacity of the station to 1,200,000 kilowatts.



Stream-flow and Storage Conditions

On the average, water conditions throughout the Southern Ontario System and the Northeastern Division were satisfactory during 1960. The annual mean flow of the Ottawa River was sufficiently high to more than compensate for the below-normal flows of the Niagara and St. Lawrence Rivers. In the spring, severe flooding occurred, particularly on the Ottawa and Severn Rivers; as the result of heavy rainfall and rapidly melting snow. The flow of the Ottawa River at Chats Falls reached a new daily record of 205,000 cfs in May, exceeding by 10,000 cfs a previous record set in 1951. Generally high rates of flow continued until the middle of July, but during the late summer and fall, precipitation was below normal and water in storage decreased to less than normal. In the Northeastern Division, stream-flow and water-storage conditions were in general above normal throughout the year. Extensive flooding occurred on the Mattagami, Montreal, and Sturgeon Rivers. In the Northwestern Division, water conditions were generally below normal during 1960.



## SOUTHERN ONTARIO SYSTEM

In the Southern Ontario System the primary peak demand occurred on December 12 and amounted to 4,772,583 kilowatts. The relatively small size of the increase in peak demand over the 1959 peak, 4.2 per cent as compared with the long-term rate of 6.1 per cent per annum, is attributed to the decline in construction and industrial activity throughout the area served during 1960.

No new hydro-electric generating units were brought into service in the Southern Ontario System during 1960. At Richard L. Hearn Generating Station in Toronto, Unit No. 7 was taken out of service in November following the discovery of damage to the turbine blading. With the good waterflow and storage conditions which prevailed during the year, however, it was possible during 1960 to increase the generation of hydro-electric energy by 7.7 per cent, and at the same time reduce the generation of the relatively more costly thermal-electric energy by 51 per cent from 1959 levels. Production of energy for secondary load purposes during 1960 was 26 per cent greater than during 1959.

The 25-cycle system of the Niagara Mohawk Power Corporation and the Commission's 25-cycle system in the Niagara Falls area were placed in parallel operation on April 1, 1960. The parallel operation of the two networks permits greater flexibility in the export of power, improves service security, and produces operating economies. The use at Sir Adam Beck-Niagara Generating Station No. 1 of the frequency-changer formerly installed at Chats Falls Generating Station facilitates the interchange of power between the residual 25-cycle network and the 60-cycle system.



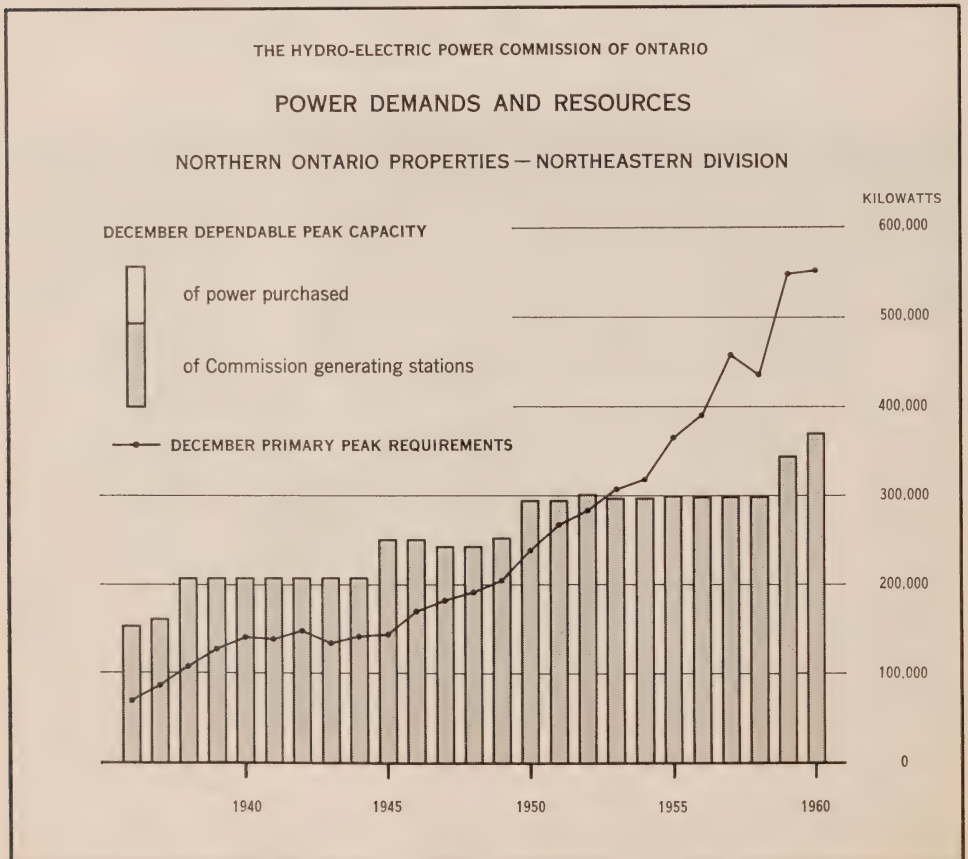
**LOAD REJECTION TESTS AT RICHARD L. HEARN GENERATING STATION** — As part of the Commission's acceptance testing procedure, the operation of Unit No. 5 and its auxiliaries is studied under the severe conditions imposed by loss of load while the unit is generating maximum power.

Recording devices and ancillary equipment will record approximately 40 variables, including electrical quantities, rotor speeds, steam pressures, temperatures, and the operating times of numerous controls.



Early in 1960 a series of tests was made at the Sir Adam Beck-Niagara Generating Stations to determine the combined maximum power output of the two main stations and the Pumping-Generating Station. Tests were made with various initial reservoir elevations. The tests established that, beginning with a full reservoir, the stations could achieve a 20-minute peak output of 1,925,000 kilowatts in approximately one hour under simulated December dependable river-flow. The effect of the higher station forebay level associated with this method of operation inevitably involves some reduction in energy output. On the other hand, the gain in power output will be of greater value, particularly when the system peak demand can be satisfied only by this mode of operation.

An extensive description of maintenance activities following the severe ice storms in December 1959 and January 1960 was included in the 1959 Report. In June a tornado passing directly over a tower on a newly constructed 230-kv line in the Sarnia area demolished the tower and brought down six other towers, three on either side. A temporary bypass was established in four days; the towers were rebuilt and the circuit was restored to normal service in ten days.

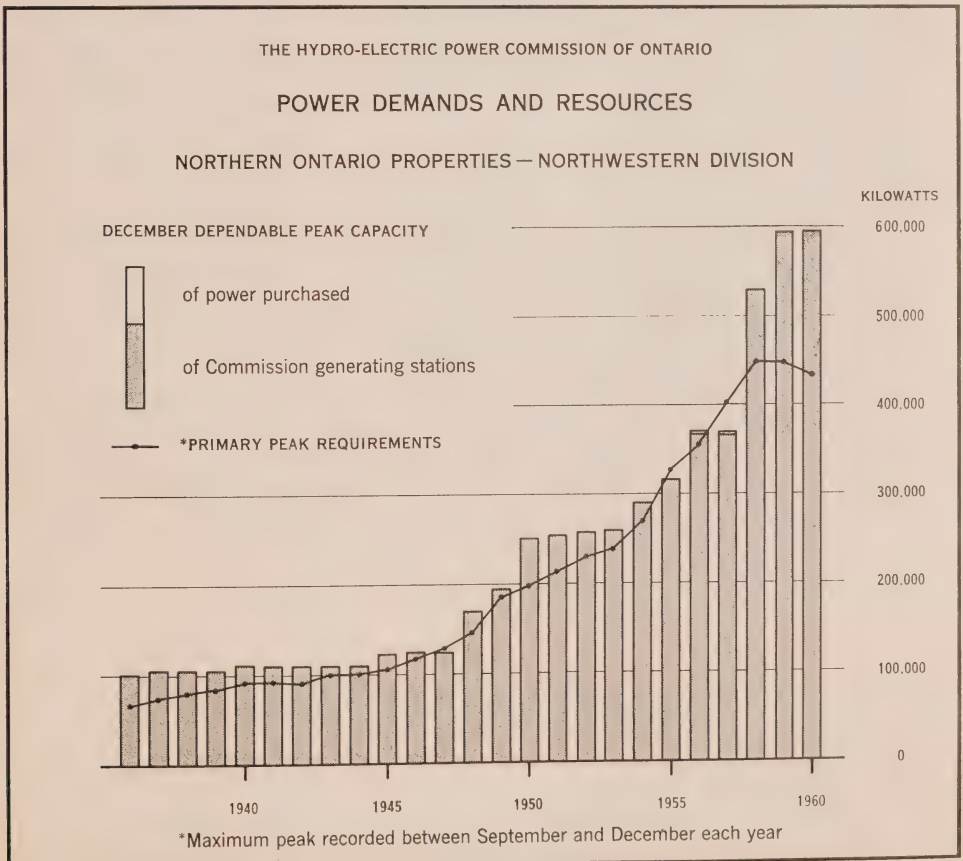


## NORTHERN ONTARIO PROPERTIES

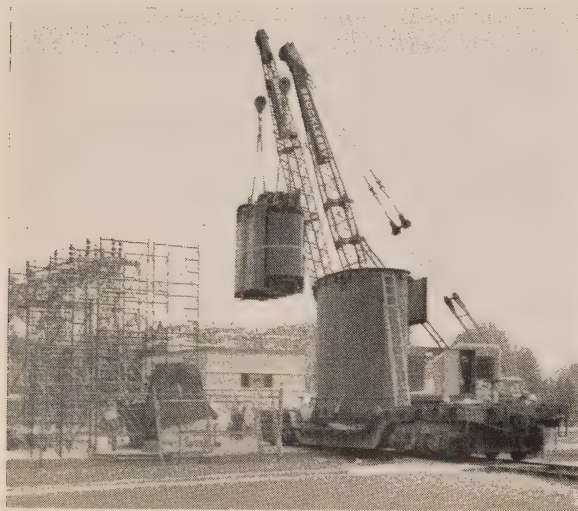
In the Northeastern Division, one 20,000-kilowatt unit was placed in service at Red Rock Falls Generating Station in November 1960 and the second early in January 1961. The efficiency of Abitibi Canyon Generating Station was increased following the deepening of the river channel at Eleanor Rapids and the consequent improvement of tailrace conditions at the station.

The primary peak demand for the Northeastern Division occurred on December 21, and exceeded the 1959 peak by only 0.3 per cent. Primary energy made available was up by 2.2 per cent, and primary and secondary energy combined was up from 1959 levels by 4.2 per cent.

In the Northwestern Division where substantial amounts of surplus hydro-electric energy were available, large blocks of secondary energy were sold for use in industrial boilers, and sales to the Manitoba Hydro-Electric Board and to the Minnesota-Ontario Paper Company were expanded as much as possible. The Commission received credit from the Manitoba Board for energy produced by the Board from water diverted from Lake St. Joseph via the English and Winnipeg Rivers.



When the Manitoba Hydro-Electric Board on December 1 operated its system in parallel with the system of the Saskatchewan Power Corporation, an interconnected 115-kv power network was completed, extending approximately 1,000 miles from Manitowadge near the eastern limit of the Northwestern Division on the east to Saskatoon on the west.



**TRANSFORMER STATION MAINTENANCE** — On-site repairs are now made to large transformers under shelter provided by portable equipment. This transformer has been removed from its tank. When it is lowered to the ground, and the scaffolding shown has been moved into position, the whole will be covered by a protective tarpaulin.

The primary peak demand in the Northwestern Division occurred on September 22 and was 3.9 per cent below the June maximum in 1959. The December peak load was 1.5 per cent below the December peak in 1959. Annual primary energy requirements in the Northwestern Division declined by 0.1 per cent from 1959 levels, but a 23.1 per cent increase in production of secondary energy

resulted in a 3.6 per cent increase in primary and secondary loads combined.

On December 1, 1960 a violent hydraulic disturbance demolished the superstructure at the Aguasabon Generating Station intake close to the shore of Hays Lake north of Lake Superior near Terrace Bay. Apparently a restriction in flow through the intake ports, due to the accumulation of ice on the racks, lowered the level of water in the vertical shaft and resulted in the formation of an air bubble in the tunnel. The eventual sudden release of the compressed bubble up the vertical shaft evidently created the violent disturbance that caused the damage. The wreckage was cleared away by December 9 and the units at the station were back in service by December 12. In the interim, one unit was operated most of the time as a synchronous condenser to maintain voltage at a satisfactory level.

## MAINTENANCE OF THE SYSTEMS

### Electrical Maintenance

Maintenance of electrical station equipment was carried out according to schedule. Failure of major equipment was confined to nine transformers of



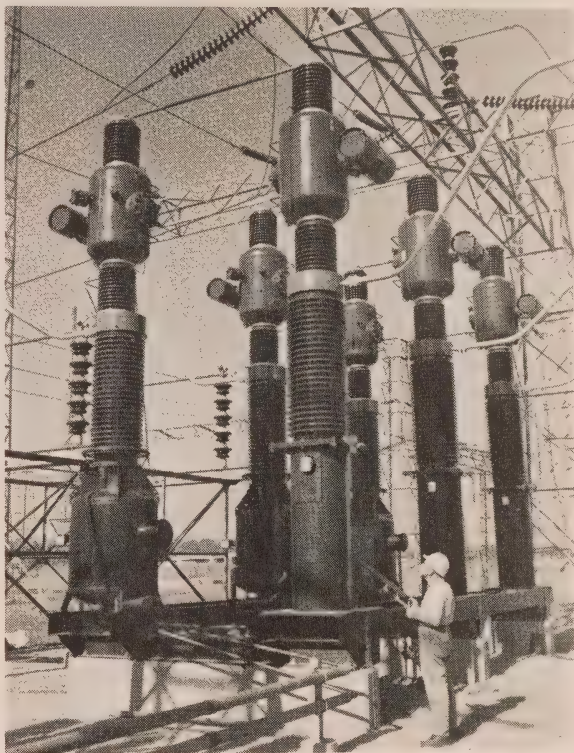
transmission voltage and ten transformers of subtransmission voltage. Three generators with capacities under 10,000 kva required rewinding.

During the year a method was convincingly demonstrated for saving repair time and costly shipping charges by carrying out on-site repairs to large power transformers even when no permanently installed facilities are available. Mobile cranes remove the core and winding assembly from the tank. A temporary scaffolding with a tarpaulin cover protects the unit while the necessary maintenance work is done at the site.

In view of the unprecedentedly high short-circuit currents being developed on the Commission's systems, it is of particular interest to note that a test position has been established so that operating experience with high-voltage circuit-breakers can be obtained without hazard to the system. The value of this installation both to the Commission and to equipment manufacturers has been amply demonstrated in recent tests of a new type of air-blast circuit-breaker.

#### Mechanical Maintenance

Major structural repairs were carried out during the spring on part of the tailrace tunnels at "Toronto Power" Generating Station in Niagara Falls. Twin concrete-lined tunnels running the length of the station are situated 150 feet below the level of the upper river. They carry the discharge from the station's eleven turbines into a single brick-lined tunnel which then carries it a further 1,800 feet to a point of discharge under the falls. Many problems were encountered in transporting equipment, concrete, and other materials to the tunnel level through restricted access openings. Repair work included removing part of the concrete lining in damaged areas, excavation of loose bed-rock, drilling and grouting for the insertion of rock anchors and dowels, and the placing of reinforcing steel and new concrete. The entire operation required the station to be shut down for only three weeks.



**AIR-BLAST CIRCUIT-BREAKER** — This breaker, with an interrupting capacity of 20 million kva, is installed at Burlington Transformer Station, a focal point in the Commission's 230-kv network. These breakers, the largest of their type being manufactured, are in the final stages of field testing at a test position established by the Commission for this purpose.



## Lines

A three-year program of repairing conductors was continued on the 230-kv lines bringing power westward from sources on the Gatineau River. During 1960, at 140 towers over a transmission line distance of 30 miles, cable-type dampers were replaced with more modern torsion-type dampers. Repairs to tower footings at the Ottawa River crossing on 230-kv lines from Pagan

Generating Station were begun in the autumn of 1960. The weight on each tower footing was transferred to a specially designed support while the old piers were demolished and new piers were constructed.



**REHABILITATION OF TOWER FOOTINGS**—Beginning in the autumn of 1960, tower footings on one of the Commission's oldest 230-kv steel-tower lines across the Ottawa River were being replaced. The procedure is to use a 15-inch I-beam, supported by the wood-pole structure shown, to temporarily carry the weight of one leg of the tower while the old footing is demolished and the new one prepared.

The Commission's helicopters operated for a total of 3,770 hours during the year, patrolling approximately 157,000 miles of high-voltage transmission lines, spraying approximately 6,300 acres of right of way for the control of herbaceous growth, and carrying out surveying and associated duties. A Sikorsky S55 helicopter was purchased in April 1960 for surveying and spraying operations. When tested also for use in sky-wire stringing, the Sikorsky S55 demonstrated the feasibility and economy of this operation, particularly over rough terrain.

As part of the planned pole replacement program, nearly 12,000 transmission, distribution, and communication poles were installed by maintenance crews. A continuing program of rehabilitation of steel towers on which galvanizing had deteriorated involved the cleaning and painting of over 400 towers.

**Forestry**

Over 42,800 acres were chemically treated for the control of woody growth during 1960, including the 6,300 acres sprayed by helicopter. A wind gauge using hydrogen-filled balloons, and developed especially for the purpose, was of material assistance in aerial spraying operations. Tree pruning and removal were carried out as required on 12,500 miles of the Commission's transmission and distribution lines, and on approximately 780 miles of newly constructed or municipally owned line. The reforestation program included the planting of nearly 144,000 seedling trees on 189 acres of Commission-owned properties in the Eastern, Northeastern, and Northwestern Regions.

The rural maintenance line-clearing program was curtailed to some extent because of the extensive repairs required following the ice storms of late 1959 and early 1960 in the West Central, Central, and Georgian Bay Regions.



This wind-speed and wind-direction indicator was developed for the guidance of crews engaged in spraying transmission line rights of way by helicopter. The meteorological balloon, tethered by a nylon line, is held at the helicopter flight level to indicate whether wind conditions are favourable for spraying operations.

## SECTION II

### FINANCE

**T**HE general administrative bases upon which service is provided to the Southern Ontario System and the Northern Ontario Properties are outlined on page 2 of the Foreword to this Report. The balance sheets and operating statements for the two systems are included in this section together with a statement of funded debt and a schedule of Provincial advances outstanding. Supporting schedules are to be found in Appendix II beginning, for the Southern Ontario System, on page 100, and for the Northern Ontario Properties, on page 136. The two statements of the allocation of the cost of primary power in Appendix II itemize for each cost-contract municipality its share of the total costs incurred and the amount billed under its interim rate. The financial operating results for the municipal electrical utilities are reported in the municipal service supplement included at the end of the Report.



### Rate Review

Over the years the Commission has steadfastly continued its efforts to hold the line against inflationary pressures, but increased interest charges, rising rates for labour, and higher taxation, together with higher prices for materials, have cumulative effects on cost that are ultimately inescapable. Another contributing factor to the increase in power costs is the increase in reserve generating capacity carried. This reserve has been gradually increased until, in 1960, it was almost 12 per cent of primary peak requirements in the interconnected Southern Ontario System and Northeastern Division. In the Northwestern Division, however, the reserve over peak requirements was abnormally high, principally as a result of a slackening in the rate of growth in the pulp and paper industry.

To meet increased costs in 1960 it was necessary in the Southern Ontario System to revise interim rates upward for the majority of the municipal electrical utilities, to introduce a minimum annual energy charge for summer cottage customers, and to increase rates for certain direct industrial customers. In the Northern Ontario Properties, rates to the majority of the municipal utilities were unchanged, the minimum annual energy charge for summer cottage service was introduced, and towards the end of the year a general increase of \$3.50 per kilowatt was introduced for service to direct industrial customers, the first general increase affecting direct industrial customers anywhere in the Province in nearly eight years. In establishing interim rates for 1961 to cost-contract utilities throughout the Province, consideration was given to the anticipated effect on costs of certain operating economies and of prospective substantially increased sinking fund relief where applicable.

### Data Processing

The Commission has made considerable progress in installing an integrated and centralized system of data processing using a large-scale electronic computer. By June 1960 all of the Commission's rural and local system customers were being billed by the data processing equipment. Procedures for the transfer of payroll and other personnel information were issued during the year and the actual transfer of this work to the computer will be completed in 1961. A preliminary study of the processing of inventory data was commenced during the year. In addition there was a continuous increase in the use of the equipment for extensive computations and studies and for the solution of engineering and scientific problems.

## COMBINED SYSTEMS—1960

### Operating Results

Gross revenue from the sale of primary power and energy amounted to \$230,981,944 in 1960, exceeding that of 1959 by \$16,301,545, or 7.6 per cent. This revenue was derived from municipal electrical utilities and interconnected systems purchasing power for resale, from industrial customers served directly by the Commission, and from customers served by Commission-owned local and rural distribution facilities.



DOUGLAS POINT NUCLEAR POWER STATION — By December 1960 the 2,300-acre site provided by the Commission on the shore of Lake Huron was a centre of construction activity. Stores and construction buildings can be seen in the middle of the cleared area, and in the foreground is the site for the station itself.

The cost of providing service was \$228,636,934, an increase over 1959 of \$16,801,874, or 7.9 per cent. Increased fixed costs arising from additions to capital in service, and a change from a net withdrawal to a net provision for stabilization of rates and contingencies were the main factors contributing to this increase.

The demand for electric power expressed in terms of the average of monthly peak loads rose by 4.5 per cent over that of 1959. The average cost of supplying primary power to all customers also increased, the average to cost-contract municipal electrical utilities rising from \$37.55 per kilowatt in 1959 to \$39.18 per kilowatt in 1960. Increased costs attributable to factors previously mentioned were, however, partly offset by reductions in cost per kilowatt for operation, maintenance, and administrative expenses.

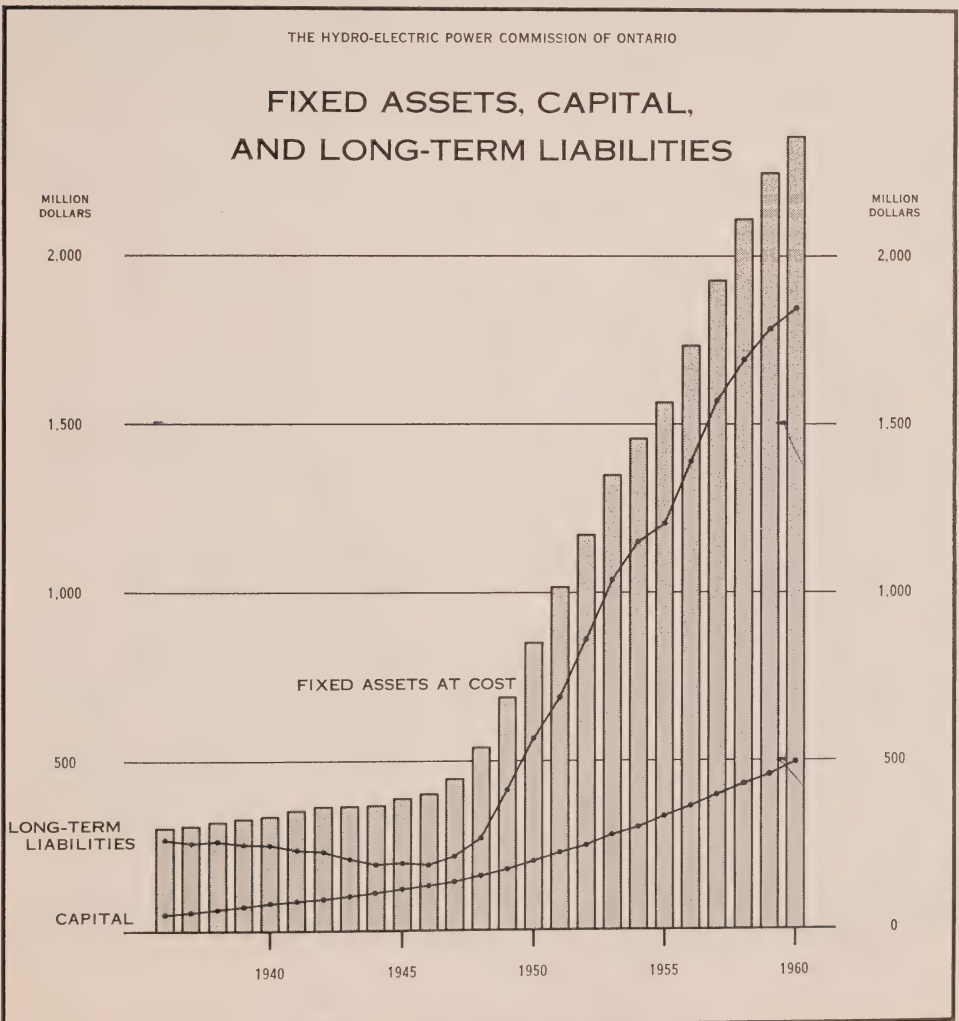
In the process of adjusting the revenue received to the cost of providing service in 1960, an amount of \$2,345,010 was disposed of as follows:

Credited to municipalities on annual adjustment—	
Southern Ontario System.....	\$1,673,330
Northern Ontario Properties.....	92,061
Credited to Rural Power District stabilization of rates reserve,	
Southern Ontario System.....	944,626
Transferred to Statement of Deficit, Northern Ontario Properties..	365,007
	<hr/>
	\$2,345,010

### Financial Summary

The Commission's total assets at December 31, 1960, after eliminating the intersystem account, were \$2,660,258,017 as compared with \$2,548,267,695 at December 31, 1959. The long-term debt at December 31, 1960 was \$1,844,056,308, an increase of \$58,195,772 during the year. Capital of \$495,900,367 at the end of 1960 comprised \$380,725,102 contributed through sinking fund for the purpose of retiring long-term debt and \$115,175,265 in Provincial contributions for assistance in construction of rural distribution facilities.

The gross expenditure on fixed assets during 1960 was, with the single exception of 1955, the lowest in the last twelve years and amounted to \$132,039,438, of which 62.5 per cent was for power generating facilities. The extension or improvement of rural distribution facilities required the expenditure of \$17,687,139, or 13.4 per cent of the total gross expenditure on fixed assets, while transmission facilities accounted for 9.3 per cent, transformation for 12.6 per cent, and other facilities, including administrative and service buildings and





equipment, for the balance of 2.2 per cent. After allowing for sales and retirements amounting to \$19,461,021, there was a net increase of \$112,578,417 in the investment in fixed assets, bringing the total to \$2,360,850,796. This total includes \$266,583,395 in rural fixed assets. Accumulated depreciation provided on fixed assets amounted to \$279,810,656 at December 31, 1960.

Economies have been achieved by rescheduling our construction program, postponing any project that can be delayed without adversely affecting operations and service. At prevailing high interest rates, borrowing was restricted in 1960 to \$100 million, the lowest level in the past five years, and the expectation is that borrowing in 1961 can be held to the same or a somewhat lower level.

The reserve for stabilization of rates and contingencies was \$146,671,705 at December 31, 1960 as compared with \$139,458,376 at December 31, 1959. The Commission maintains this reserve as an insurance fund for the protection of the municipal electrical utilities, rural customers, and direct industrial customers alike, against such contingencies as sharp swings in economic activity, unfavourable stream-flows at hydraulic generating stations, physical catastrophe, and risk of foreign exchange loss at maturity of bonds payable in United States funds. The reserve is not intended to be used for absorbing normal increases in costs.

The funds required by the Commission for capital investment and other purposes in 1960 were obtained from sources as shown in the following table:

**STATEMENT OF SOURCE AND APPLICATION OF FUNDS**  
**for the Year Ended December 31, 1960**

	\$ '000 omitted
<b>FUNDS PROVIDED:</b>	
From issue of \$100 million of bonds, net of discount and bond issue expense	97,949
From operations—	
Charges to cost of power not requiring an outlay of cash:	
Net provision and interest added to reserves for stabilization of rates and contingencies, and sinking fund, and to accumulated depreciation. . . . .	74,921
Provision for frequency standardization. . . . .	10,946
Miscellaneous. . . . .	2,885
	88,752
From reductions in inventories and work orders. . . . .	5,934
Total. . . . .	192,635
<b>FUNDS APPLIED:</b>	
Expenditures on fixed assets, \$132,039,000 less proceeds from sales, etc. . . .	127,545
Retirement of Commission bonds and repayment of Provincial advances. .	40,151
Purchases of general and sinking fund investments, less proceeds from sales and maturities. . . . .	13,759
Expenditures on nuclear research. . . . .	2,055
Miscellaneous. . . . .	1,540
Net increase in working capital. . . . .	7,585
Total. . . . .	192,635

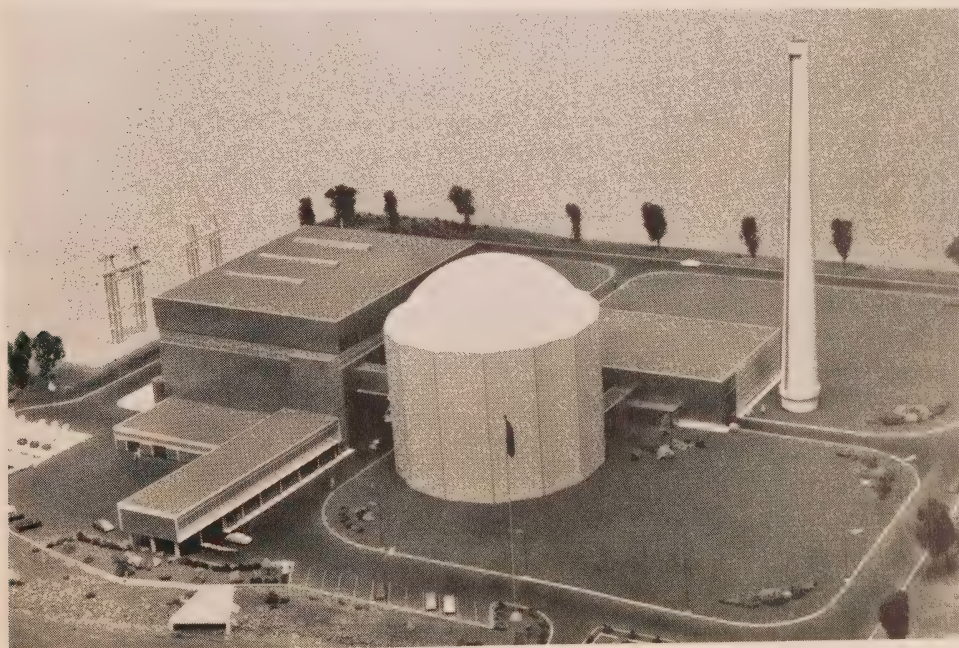
## OPERATING RESULTS BY SYSTEMS—1960

## Southern Ontario System

The cost of providing service at \$188,259,866 was 8.9 per cent greater than in 1959, and gross revenue from the sale of primary power and energy at \$190,877,822 was up by 8.5 per cent. Revenue from the sale of secondary electric energy applied as an offset against cost amounted to \$8,082,582, of which \$4,741,830 were derived from 60-cycle secondary export and \$3,340,752 from other secondary sales. The gross revenue figure and the revenue from secondary sales together apply to the 27,795,302,731 kilowatt-hours which are the Southern Ontario System's share of total Commission sales, wholesale and retail, as shown in the table on pages 96 and 97.

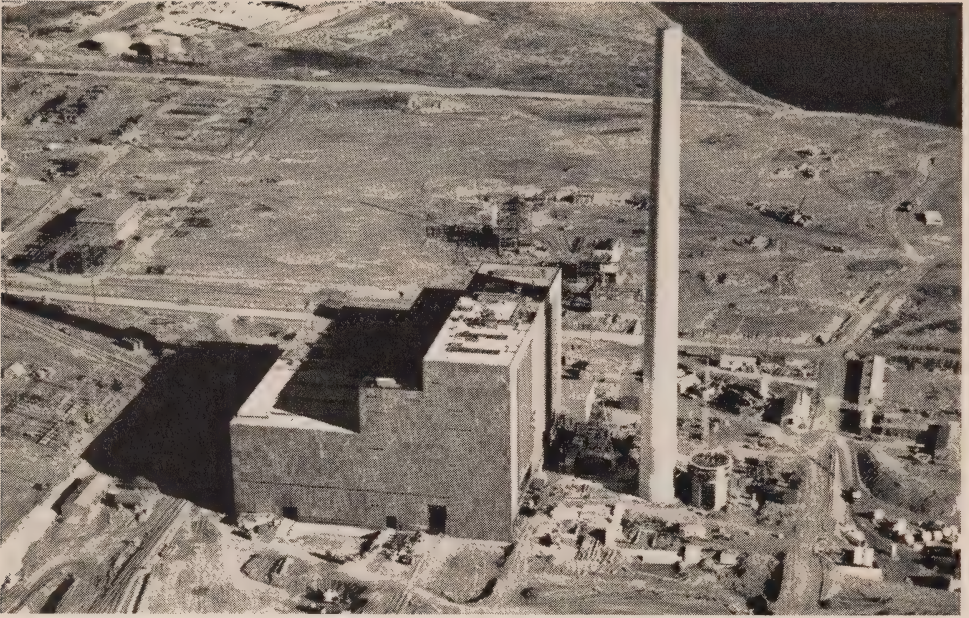
Operating costs, including the cost of power purchased, declined slightly from those in 1959, while the charge for depreciation remained practically unchanged, the year-to-year increase being small because the 1959 charge had included a special provision of \$1,330,255 for the possible early retirement of certain older hydraulic generating stations. Interest charges were up by 11.8 per cent, frequency standardization charges by 14.5 per cent, and the net provision of funds for the retirement of long-term debt exceeded that in 1959 by 7.8 per cent. The balance of the increase in the cost of providing service is attributable to the provision for stabilization of rates and contingencies, none having been made in 1959. This provision is explained in detail in the notes on the allocation of the cost of primary power appearing on pages 126 and 127.

In view of the above, the total cost of power to cost-contract utilities rose on the average from \$37.68 in 1959 to \$39.37 in 1960. Apart from one isolated



**DOUGLAS POINT NUCLEAR POWER STATION** — This photograph of a scale model gives a striking impression of the station as it will appear when the first large-scale nuclear power unit in Canada is ready for service. The reactor is scheduled to go critical late in 1964.





**LAKEVIEW GENERATING STATION** — During the 1961 navigation season, a minimum of 250,000 tons of coal will be stored at the station in preparation for the operation of the first of four scheduled units in 1961.

instance in which quite unusual operating conditions apply, the maximum cost of power charged to any cost-contract municipal electrical utility in the Southern Ontario System in 1960 was \$49.61 per kilowatt per year as compared with \$48.22 in 1959.

#### **Northern Ontario Properties**

The cost of providing service to all customers in the Northern Ontario Properties, after a withdrawal of \$465,170 from the stabilization of rates and contingencies reserve, was \$40,377,068, which exceeded the corresponding cost in 1959 by 3.6 per cent. Gross revenue from the sale of primary power and energy amounted to \$40,104,122 in 1960, and while this revenue was \$272,946 less than the cost of providing service, it represented an increase of 3.6 per cent over the corresponding revenue in 1959. Revenue from the sale of secondary electric energy applied as an offset against cost amounted to \$1,108,644. The gross revenue figure and the revenue from secondary sales together apply to the 6,521,946,390 kilowatt-hours which are the Northern Ontario Properties' share of the total Commission sales, wholesale and retail, as shown in the table on pages 96 and 97.

Operating costs, including the cost of power purchased, increased 1.5 per cent over those in 1959. Interest charges were up 6.7 per cent, while charges for depreciation rose by 5.5 per cent over similar charges in 1959. The 1960 net provision of funds for the retirement of long-term debt increased over the provision in 1959 by 5.1 per cent. The largest single factor contributing to the increase in over-all costs was the absence in 1960 of a general withdrawal from the stabilization of rates and contingencies reserve, the withdrawal in 1959 being



at the rate of \$1 per kilowatt on the average monthly peak load of all customers for a total of \$903,685. Partly offsetting these increases were declines of 10.4 per cent in the cost of interchange of power with the Southern Ontario System, and of 21.9 per cent in charges for frequency standardization, and an increase of \$167,846 in the withdrawal from the stabilization of rates and contingencies reserve applied to reduce the cost of power to cost-contract municipalities formerly served by the Thunder Bay System. Since the cost of service to these latter municipal electrical utilities was substantially greater than the revenues they provided, it was again necessary to make this withdrawal from the stabilization of rates and contingencies reserve held specifically for their benefit. In 1960 the withdrawal of \$465,170 from this reserve was equivalent to \$6 per kilowatt on the average of their monthly peak loads as compared with a withdrawal of \$297,324 in 1959, or \$4 per kilowatt.

As a result of these factors and other considerations mentioned in the notes which accompany the statement of the allocation of the cost of primary power (see pages 144 and 145), the total cost of power per kilowatt per year to cost-contract utilities in the Northern Ontario Properties rose, on the average, from \$33.54 in 1959 to \$34.67 in 1960.

THE HYDRO-ELECTRIC POWER  
SOUTHERN  
BALANCE SHEET

ASSETS

FIXED ASSETS AT COST:

Power System . . . . .	\$ 1,659,786,230	
Administrative and service buildings and equipment . . . . .	32,190,369	
Rural Power District . . . . .	226,406,241	
	<hr/>	
	\$ 1,918,382,840	
Less accumulated depreciation . . . . .	229,874,079	
	<hr/>	\$ 1,688,508,761

FREQUENCY STANDARDIZATION:

Cost of completed standardization after charging \$157,540,927 to reserves and cost of power—balance to be written off in future years . . . . .	188,548,084
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CURRENT ASSETS:

Cash . . . . .	\$ 28,766,133	
Temporary investments in government and government-guaranteed securities, at market value . . . . .	6,718,732	
Accounts receivable . . . . .	28,251,921	
Customers' securities on deposit . . . . .	370,600	
Northern Ontario Properties—current account . . . . .	1,203,514	
	<hr/>	65,310,900

INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND CONSTRUCTION:

Coal at cost . . . . .	\$ 11,641,023	
Other materials and supplies at cost . . . . .	11,915,079	
Tools and equipment at cost less depreciation . . . . .	10,433,575	
	<hr/>	33,989,677

DEFERRED CHARGES AND OTHER ASSETS:

Debenture discount and expense less amounts written off . . . \$	17,007,223	
Deferred work orders and other assets . . . . .	5,405,954	
	<hr/>	22,413,177

RESERVE FUND INVESTMENTS:

Investments held for special reserves at amortized cost plus accrued interest (approximate market value \$107,984,000)—		
Pension fund . . . . .	\$ 113,901,960	
Employer's liability insurance fund . . . . .	3,198,979	
Employees' savings and insurance fund . . . . .	355,285	
Investments held for other reserves at amortized cost (approximate market value \$108,881,000)—		
Stabilization of rates and contingencies . . . . .	104,897,020	
Sinking fund . . . . .	8,858,408	
	<hr/>	231,211,652
		<hr/>
		\$ 2,229,982,251

**Auditors' Report**

We have examined the balance sheet of the Southern Ontario System of The Hydro-Electric Power Commission of Ontario as at December 31, 1960 and the statement of operations for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations present fairly the financial position of the Southern Ontario System of the Commission as at December 31, 1960 and the results of the operations for the year ended on that date.

CLARKSON, GORDON & CO.

Chartered Accountants.

Toronto, Canada,  
May 19, 1961.

## COMMISSION OF ONTARIO

## ONTARIO SYSTEM

AS AT DECEMBER 31, 1960

## LIABILITIES, RESERVES, AND CAPITAL

## LONG-TERM LIABILITIES (including \$1,868,306 maturing in 1961):

Funded debt (at par of exchange).....	\$ 1,830,200,500	
Less—issued to finance Northern Ontario Properties, a separate trust operated by the Commission.....	309,800,545	
	<u>\$ 1,520,399,955</u>	
Advances from the Province of Ontario (at par of exchange).....	\$15,060,978	
Less advances for Northern Ontario Properties.....	2,656,218	
	<u>12,404,760</u>	
	<u>\$ 1,532,804,715</u>	
Less exchange discount (net) incurred on funded debt payable in United States funds.....	670,003	
	<u>\$ 1,532,134,712</u>	

## CURRENT LIABILITIES:

Accounts and payrolls payable and accrued charges.....	\$ 25,453,052	
Customers' deposits.....	926,133	
Interest accrued on long-term liabilities.....	<u>17,944,354</u>	
		44,323,539

## SPECIAL RESERVES:

Pension fund.....	\$ 115,499,666	
Employer's liability insurance fund.....	3,081,061	
Employees' savings and insurance fund.....	<u>350,015</u>	
		118,930,742

## GENERAL RESERVE:

Stabilization of rates and contingencies.....		127,347,803
---	--	-------------

## CAPITAL:

Sinking fund reserve:		
Represented by—		
Funded debt and Provincial advances retired through sinking funds.....	\$302,902,267	
Sinking fund investments.....	<u>8,822,099</u>	
	<u>\$ 311,724,366</u>	
Contributed capital:		
Province of Ontario, assistance for rural construction...	<u>95,521,089</u>	
		407,245,455

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\$ 2,229,982,251

NOTE: Commitments under uncompleted contracts for the construction of fixed assets, approximately \$65,000,000.



## NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power Commission of Ontario in

## BALANCE SHEET

## ASSETS

## FIXED ASSETS AT COST:

Power System.....	\$ 398,938,529	
Administrative and service buildings and equipment.....	3,352,273	
Rural Power District.....	40,177,154	
	<u>\$ 442,467,956</u>	
Less accumulated depreciation.....	49,936,577	
		<u>\$ 392,531,379</u>

## FREQUENCY STANDARDIZATION:

Cost of completed standardization after charging \$1,280,489 to cost of power—balance to be written off in future years..		3,445,863
--	--	-----------

## CURRENT ASSETS:

Cash.....	\$ 503,950	
Accounts receivable.....	5,751,851	
Customers' securities on deposit.....	1,556,067	
		<u>7,811,868</u>

INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND  
CONSTRUCTION:

Materials and supplies at cost.....	\$ 923,813	
Tools and equipment at cost less depreciation.....	526,851	
		<u>1,450,664</u>

## DEFERRED CHARGES AND OTHER ASSETS:

Debenture discount and expense less amounts written off.....	\$ 3,676,693	
Account receivable in annual instalments 1961-1989.....	1,761,616	
Deferred work orders and other assets.....	643,456	
		<u>6,081,765</u>

## RESERVE FUND INVESTMENTS:

Investments held for reserves at amortized cost (approximate market value \$16,675,000)—		
Stabilization of rates and contingencies.....	\$ 17,009,730	
Sinking fund.....	2,888,043	
		<u>19,897,773</u>

## DEFICIT:

Arising from supply of power to customers served for the account of the Province of Ontario.....		259,968
		<u>\$ 431,479,280</u>

## Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost, as at December 31, 1960, and the statements of operations and deficit for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statements of operations and deficit present fairly the financial position of the Northern Ontario Properties as at December 31, 1960 and the results of the operations for the year ended on that date.

CLARKSON, GORDON &amp; CO.

Chartered Accountants.

Toronto, Canada.  
May 19, 1961.

## PROPERTIES

### Trust for the Province of Ontario and Municipalities Supplied with Power at Cost AS AT DECEMBER 31, 1960

#### LIABILITIES, RESERVES, AND CAPITAL

##### LONG-TERM LIABILITIES (including \$226,316 maturing in 1961):

Funded debt (at par of exchange).....	\$ 309,800,545	
Advances from the Province of Ontario (at par of exchange)....	2,656,218	
	<u>\$ 312,456,763</u>	
Less exchange discount (net) incurred on funded debt payable in United States funds.....	535,167	
	<u>\$ 311,921,596</u>	
Representing the portion of the funded debt and advances from the Province of Ontario owing by The Hydro-Electric Power Commission of Ontario, issued to finance Northern Ontario Properties.		

##### CURRENT LIABILITIES:

The Hydro-Electric Power Commission of Ontario—current account.....	\$ 1,203,514	
Accounts and payrolls payable and accrued charges.....	1,909,326	
Customers' deposits.....	4,377,171	
Interest accrued on long-term liabilities.....	3,890,300	
Rural Power District grants received in advance.....	<u>198,559</u>	
		11,578,870

##### GENERAL RESERVE:

Stabilization of rates and contingencies.....		19,323,902
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##### CAPITAL:

Sinking fund reserve:		
Province of Ontario.....	\$ 54,669,977	
Municipalities supplied with power at cost....	<u>14,330,759</u>	
		\$ 69,000,736

##### Represented by—

Funded debt and Provincial advances retired through sinking funds.....	\$ 66,157,298	
Sinking fund investments.....	<u>2,843,438</u>	
	<u>\$ 69,000,736</u>	

##### Contributed capital:

Province of Ontario, assistance for rural construction.....	<u>19,654,176</u>	
		88,654,912
		<u>\$ 431,479,280</u>

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## SOUTHERN ONTARIO SYSTEM

## STATEMENT OF OPERATIONS

for the Year Ended December 31, 1960

	Power System	Rural Power District	Total
	\$	\$	\$
<b>COST OF PRIMARY POWER:</b>			
Cost of power purchased.....	12,586,660	.....	12,586,660
Operation, maintenance, and administrative expenses.....	51,101,847	13,185,322	64,287,169
Interest (including interest on long-term liabilities and reserves, less interest earned on invest- ments).....	60,055,602	4,772,499	64,828,101
Frequency standardization:			
Interest.....	7,487,076	.....	7,487,076
Portion of cost written off.....	10,805,643	.....	10,805,643
Depreciation.....	13,074,301	6,213,824	19,288,125
Stabilization of rates and contingencies provision:			
General.....	4,448,929	.....	4,448,929
Nuclear research.....	407,520	.....	407,520
Sinking fund provision—contribution to system capital.....	16,250,362	1,297,763	17,548,125
	176,217,940	25,469,408	201,687,348
Interchange of power with Northern Ontario			
Properties.....	4,503,699	.....	4,503,699
Sale of 60-cycle secondary export energy.....	4,741,830	.....	4,741,830
Sale of other secondary energy.....	3,340,752	.....	3,340,752
Credit resulting from matured sinking fund.....	841,201	.....	841,201
	162,790,458	25,469,408	188,259,866
Net cost of power supplied to Rural Power District.....	20,634,771	20,634,771	.....
Total.....	142,155,687	46,104,179	188,259,866
<b>AMOUNTS BILLED FOR PRIMARY POWER:</b>			
Municipalities (at interim rates).....	118,555,785	.....	118,555,785
Direct industrial customers and interconnected systems.....	25,182,780	.....	25,182,780
Local distribution system customers.....	90,452	.....	90,452
Rural customers.....	.....	47,048,805	47,048,805
Total.....	143,829,017	47,048,805	190,877,822
Excess of amounts billed over cost.....	1,673,330	944,626	2,617,956
Credited to municipalities on annual adjustment..	1,673,330	.....	1,673,330
Credited to stabilization of rates reserve.....	.....	944,626	944,626



## NORTHERN ONTARIO PROPERTIES

*Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost*

**STATEMENT OF OPERATIONS**  
**for the Year Ended December 31, 1960**

	Customers served for the account of the Province of Ontario			Municipalities supplied with power at cost	Total
	Rural Power District	Other customers	Total		
<b>COST OF PRIMARY POWER:</b>	\$	\$	\$	\$	\$
Cost of power purchased.....		480,206	480,206		480,206
Operation, maintenance, and administrative expenses.....	2,123,827	13,418,335	15,542,162		15,542,162
Interest (including interest on long-term liabilities and reserves, less interest earned on investments).....	777,939	13,222,074	14,000,013		14,000,013
Frequency standardization:					
Interest.....		176,850	176,850		176,850
Portion of cost written off.....		140,038	140,038		140,038
Depreciation.....	1,102,050	2,909,229	4,011,279		4,011,279
Provision for nuclear research.....		92,480	92,480		92,480
Sinking fund provision—contribution to system capital.....	209,336	3,518,902	3,728,238		3,728,238
	4,213,152	33,958,114	38,171,266		38,171,266
Interchange of power with Southern Ontario System.....		4,503,699	4,503,699		4,503,699
Sale of secondary energy.....		1,108,644	1,108,644		1,108,644
Credit resulting from prepaid and matured sinking funds.....		724,083	724,083		724,083
	4,213,152	36,629,086	40,842,238		40,842,238
Cost of power to municipalities supplied at cost.....		4,832,360	4,832,360	4,832,360	
Cost of power supplied to Rural Power District.....	2,698,478	2,698,478			
Withdrawal from stabilization of rates reserve.....				465,170	465,170
Costs after withdrawal from stabilization of rates reserve....	6,911,630	29,098,248	36,009,878	4,367,190	40,377,068
<b>AMOUNTS BILLED FOR PRIMARY POWER:</b>					
Municipalities supplied with power at cost (at interim rates).....				4,459,251	4,459,251
Fixed-rate municipalities.....		1,232,224	1,232,224		1,232,224
Direct industrial, and other customers.....		24,883,132	24,883,132		24,883,132
Local distribution system customers.....		3,045,900	3,045,900		3,045,900
Rural customers.....	6,483,615		6,483,615		6,483,615
Total.....	6,483,615	29,161,256	35,644,871	4,459,251	40,104,122
Excess or deficiency of amounts billed over cost.....	428,015	63,008	365,007	92,061	272,946
Credited to municipalities on annual adjustment.....				92,061	92,061
Transferred to Statement of Deficit.....			365,007		365,007

**Statement of Deficit for the Year Ended December 31, 1960**

Balance at credit January 1, 1960.....	\$ 105,039
Deduct balance transferred from Statement of Operations for the year ended December 31, 1960.....	365,007
Balance at debit December 31, 1960.....	\$ 259,968

THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Date of maturity	Callable on or after	Date of issue	Interest rate
PAYABLE IN CANADIAN FUNDS— <i>Guaranteed as to principal and interest by the Province of Ontario:</i>			
February 15, 1962	.....	February 15, 1957	per cent 4 $\frac{3}{4}$
March 1, 1963	March 1, 1961	March 1, 1948	3
March 1, 1963	March 1, 1962	March 1, 1955	3
October 15, 1963	.....	October 15, 1958	4
May 15, 1964	.....	November 15, 1957	5
May 15, 1964	May 15, 1962	May 15, 1954	3
July 2, 1964	July 2, 1960	July 2, 1948	3
October 15, 1964	October 15, 1963	October 15, 1956	4 $\frac{1}{2}$
April 1, 1965	April 1, 1964	April 1, 1957	5
December 15, 1965	December 15, 1963	December 15, 1948	3
January 15, 1966	January 15, 1964	January 15, 1956	3 $\frac{3}{4}$
March 1, 1966	March 1, 1965	March 1, 1958	4
May 1, 1966	May 1, 1964	May 1, 1951	3 $\frac{1}{2}$
January 15, 1967	January 15, 1965	January 15, 1952	4
March 15, 1967	March 15, 1964	March 15, 1953	4 $\frac{1}{4}$
April 1, 1967	April 1, 1965	April 1, 1949	3
April 1, 1967	April 1, 1964	April 1, 1947	2 $\frac{3}{4}$
November 1, 1967	November 1, 1964	November 1, 1952	4 $\frac{1}{4}$
November 1, 1967	November 1, 1964	November 1, 1952	4 $\frac{1}{4}$
January 15, 1968	January 15, 1966	July 15, 1949	3
April 15, 1968	April 15, 1966	April 15, 1952	4
October 1, 1968	October 1, 1965	October 1, 1947	2 $\frac{3}{4}$
July 1, 1969	.....	July 1, 1959	5 $\frac{3}{4}$
July 15, 1969	July 15, 1966	July 15, 1953	4 $\frac{1}{4}$
July 15, 1969	July 15, 1966	July 15, 1953	4 $\frac{1}{4}$
November 1, 1969	November 1, 1967	November 1, 1949	3
January 1, 1970	.....	January 1, 1930	4 $\frac{3}{4}$
February 15, 1970	.....	February 15, 1960	6
April 1, 1970	April 1, 1968	April 1, 1950	3
July 15, 1970	.....	July 15, 1960	5 $\frac{1}{4}$
October 15, 1970	October 15, 1969	October 15, 1958	4 $\frac{1}{2}$
June 1, 1971	June 1, 1961	June 1, 1946	2 $\frac{3}{4}$
June 15, 1973	June 15, 1971	June 15, 1950	3
July 15, 1974	July 15, 1972	July 15, 1956	4
October 15, 1974	October 15, 1972	October 15, 1956	4 $\frac{1}{2}$
August 15, 1975	August 15, 1972	February 15, 1957	4 $\frac{3}{4}$
January 15, 1976	January 15, 1974	January 15, 1956	4
November 15, 1976	November 15, 1974	November 15, 1957	5
March 1, 1977	March 1, 1975	March 1, 1955	3 $\frac{1}{2}$
April 1, 1977	April 1, 1974	April 1, 1957	5
March 1, 1978	March 1, 1976	March 1, 1958	4 $\frac{1}{2}$
October 15, 1978	October 15, 1976	October 15, 1958	5
May 15, 1979	May 15, 1974	May 15, 1954	3 $\frac{1}{2}$
July 1, 1979	.....	July 1, 1959	5 $\frac{3}{4}$
October 15, 1979	October 15, 1974	October 15, 1954	3 $\frac{1}{2}$
February 15, 1980	February 15, 1978	February 15, 1960	6
July 15, 1980	July 15, 1978	July 15, 1960	5 $\frac{1}{2}$

## COMMISSION OF ONTARIO

DECEMBER 31, 1960

Principal outstanding December 31, 1960		
Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
8,367,500	2,990,000	11,357,500
22,324,000	7,343,000	29,667,000
22,651,000	.....	22,651,000
12,948,000	6,700,000	19,648,000
3,584,500	9,598,000	13,182,500
12,736,500	902,000	13,638,500
25,052,500	13,371,500	38,424,000
12,999,500	.....	12,999,500
16,331,500	1,716,000	18,047,500
43,022,000	.....	43,022,000
10,890,500	2,016,500	12,907,000
29,763,500	6,157,500	35,921,000
22,427,000	5,011,000	27,438,000
44,632,000	412,500	45,044,500
34,038,000	.....	34,038,000
10,651,500	32,244,000	42,895,500
10,410,455	3,996,545	14,407,000
19,225,500	1,812,000	21,037,500
30,716,000	.....	30,716,000
36,178,000	6,300,000	42,478,000
44,949,500	.....	44,949,500
13,450,000	5,800,000	19,250,000
10,000,000	3,000,000	13,000,000
34,045,000	.....	34,045,000
24,343,000	.....	24,343,000
37,800,000	11,500,000	49,300,000
11,497,500	.....	11,497,500
11,200,000	4,800,000	16,000,000
48,038,000	5,300,000	53,338,000
3,800,000	1,600,000	5,400,000
3,700,000	1,800,000	5,500,000
13,745,000	4,290,000	18,035,000
52,000,000	2,300,000	54,300,000
42,591,000	7,000,000	49,591,000
26,592,500	.....	26,592,500
25,063,000	12,000,000	37,063,000
42,500,000	7,500,000	50,000,000
10,875,000	25,230,000	36,105,000
26,200,000	13,000,000	39,200,000
73,400,000	7,900,000	81,300,000
30,080,000	6,400,000	36,480,000
33,000,000	16,500,000	49,500,000
31,500,000	3,500,000	35,000,000
28,000,000	9,000,000	37,000,000
41,975,000	8,000,000	49,975,000
23,800,000	10,200,000	34,000,000
31,200,000	13,400,000	44,600,000
<u>1,204,293,955</u>	<u>280,590,545</u>	<u>1,484,884,500</u>



THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Date of maturity		Callable on or after		Date of issue		Interest rate
PAYABLE IN UNITED STATES FUNDS— <i>Held by Province of Ontario and having terms identical with</i>						
March	15, 1961	March	15, 1959	March	15, 1954	2.65
March	15, 1962	March	15, 1959	March	15, 1954	2.70
March	15, 1963	March	15, 1959	March	15, 1954	2.75
March	15, 1964	March	15, 1959	March	15, 1954	2.80
May	15, 1971	May	15, 1956	May	15, 1951	3¼
September	1, 1972	September	1, 1956	September	1, 1951	3¼
February	1, 1975	February	1, 1958	February	1, 1953	3¼
November	1, 1978	November	1, 1958	November	1, 1953	3⅝
March	15, 1980	March	15, 1959	March	15, 1954	3⅝
May	15, 1981	May	15, 1961	May	15, 1956	3⅞
February	1, 1984	February	1, 1969	February	1, 1959	4¾
Total funded debt (at par of exchange) . . . . .						

Summary of changes in funded debt

Outstanding at January 1, 1960.....	
Less redemptions during year.....	
Add new bond issues during year.....	
Outstanding at December 31, 1960.....	

ADVANCES FROM THE PROVINCE OF

*Repayable to the Province in accordance with the terms of Province*

Date of maturity		Description	Interest rate
			per cent
May	15, 1961-1968.....	Annuity bonds	4
May	15, 1961-1970.....	Annuity bonds	4 <sup>1</sup> / <sub>2</sub>
January	15, 1961-1971.....	Annuity bonds	4 <sup>1</sup> / <sub>2</sub>
June	1, 1961-1971.....	Annuity bonds	4
Total advances (at par of exchange).....			

Summary of changes in advances from the Province

Balances of advances at January 1, 1960.....	
Less repayments during year.....	
Balances of advances at December 31, 1960.....	

## COMMISSION OF ONTARIO

## DECEMBER 31, 1960—Concluded

Principal outstanding December 31, 1960		
Southern Ontario System	Northern Ontario Properties	Total
<i>issues sold in the United States by the Province of Ontario on behalf of the Commission:</i>		
696,000	.....	696,000
1,434,000	.....	1,434,000
2,544,000	.....	2,544,000
2,599,000	.....	2,599,000
46,406,000	2,890,000	49,296,000
43,175,000	.....	43,175,000
47,696,000	.....	47,696,000
43,966,000	5,000,000	48,966,000
29,920,000	.....	29,920,000
41,070,000	3,320,000	44,390,000
56,600,000	18,000,000	74,600,000
<u>316,106,000</u>	<u>29,210,000</u>	<u>345,316,000</u>
1,520,399,955	309,800,545	1,830,200,500

## during year ended December 31, 1960

\$1,473,065,455	\$283,583,545	\$1,756,649,000
22,665,500	3,783,000	26,448,500
<u>\$1,450,399,955</u>	<u>\$279,800,545</u>	<u>\$1,730,200,500</u>
70,000,000	30,000,000	100,000,000
<u>\$1,520,399,955</u>	<u>\$309,800,545</u>	<u>\$1,830,200,500</u>

## ONTARIO AS AT DECEMBER 31, 1960

of Ontario bonds issued in part for the purposes of the Commission

Balances of advances outstanding December 31, 1960 (Payable in Canadian, United States, or Sterling funds)		
Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
3,989,687	269,459	4,259,146
3,602,585	873,078	4,475,663
2,125,896	522,209	2,648,105
2,686,592	991,472	3,678,064
<u>12,404,760</u>	<u>2,656,218</u>	<u>15,060,978</u>

## of Ontario during year ended December 31, 1960

\$25,039,726	\$5,457,014	\$30,496,740
12,634,966	2,800,796	15,435,762
<u>\$12,404,760</u>	<u>\$2,656,218</u>	<u>\$15,060,978</u>

## SECTION III

### THE COMMISSION'S CUSTOMERS

**T**HE Commission's interest in the market for electric energy necessarily extends beyond the supply of electricity in wholesale quantities to its principal municipal and industrial customers. This wider interest is based on the recognition that the maintenance of low rates for electricity is dependent on a continued expansion in the use of electricity by ultimate customers served at retail by municipal and rural systems. These customers must be encouraged to avail themselves as fully as possible of the wide variety of efficient and labour-saving electric appliances on the market. In order to achieve this increased use of electric equipment, the Commission, in conjunction with the municipal electrical utilities and the electrical manufacturers, continued a balanced load-building program.

#### **The Sales Program**

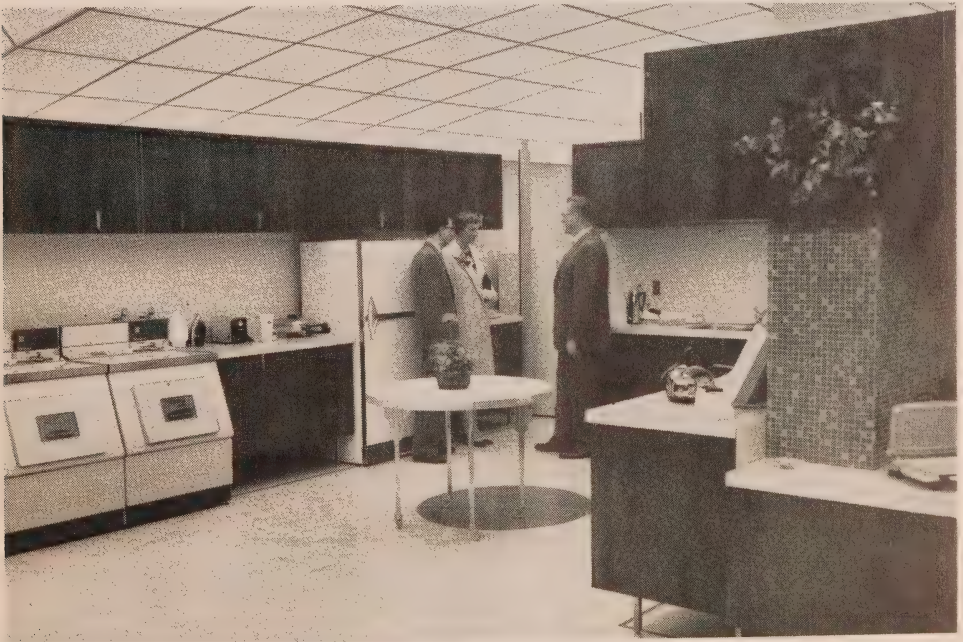
Sales personnel specially qualified for dealing with commercial, industrial, and residential aspects of sales, and with electrical applications on the farm gave guidance to regional and municipal utility staffs in developing the market for electric energy. They also organized and conducted training courses and study groups on electric heating, lighting, and the use of electricity in industry. During October and November, intensive training in electric heating was given to 175 electrical and building contractors, and certification as qualified electric



heating contractors was given to the candidates who successfully completed the course.

Activity in the Medallion Home program was markedly increased, and 600 homes were awarded the Medallion symbol, 150 the Gold Medallion and 450 the Bronze Medallion. The Bronze and Gold Medallion standards guarantee to the purchaser of a house a high degree of electrical excellence to meet present and future electrical needs. Both standards require a service and distribution panel of appropriate capacity, basic conditions for adequate lighting throughout, an electric water-heater, and circuit provisions for major appliances. In addition, to qualify for the Gold Medallion, a house must have electric heating, as well as certain items of feature lighting. Negotiations with builders, and planners of subdivisions have established a program for approximately 5,500 Medallion houses to be constructed during the period 1961-2. The Commission is sponsoring a competition, open to all members of the Ontario Association of Architects resident in the Province, for the design of an all-electric house which meets Gold Medallion standards. The award-winning design is expected to be displayed at the Canadian National Exhibition in 1961.

During 1960 a survey by mail of 100,000 customers was undertaken for the purpose of establishing appliance saturations to be used in determining market trends in appliance sales and load-building potentials. The survey was a representative sampling of 1.5 million residential and farm customers served by municipal and rural distribution systems. The response to the questionnaire sent out was remarkably high, and the summary and interpretation of the results will be available in the summer of 1961. The statistics obtained will be useful



**APPLIANCE DEMONSTRATION CENTRE OF LONDON PUBLIC UTILITIES COMMISSION** — The municipal utilities are co-operating with the Commission and appliance manufacturers in a continuing program to promote electrical living. The tasteful arrangement of convenient, economical, labour-saving household appliances provides a centre of customer interest and an opportunity to develop and improve customer relations.

in planning residential and farm load-building programs on a province-wide basis or for selected areas.

In order to obtain data which will assist in the planning of distribution systems, the Association of Municipal Electrical Utilities of Ontario, in co-operation with Ontario Hydro, has undertaken a program of residential load surveys. The first step, inaugurated in November 1960, was a pilot survey of

approximately 200 customers selected at random from eight municipal utilities in the Metropolitan Toronto area. The information on power requirements was recorded on digital demand recorders to permit automatic translation for data processing by the Commission's electronic computer. The data, correlated with information on the customers' inventory of appliances, will be used in preparatory work for more extensive surveys.



**DIGITAL DEMAND RECORDER USED IN RESIDENTIAL SURVEY** — Fifty recorders of the type installed on this distribution line pole have been used in a pilot survey of the loads of 200 customers in the Metropolitan Toronto area. The plan is eventually to extend the survey to include a representative sampling of 1,000 customers throughout the Province.

Special sales programs have enlisted the co-operation of builders and dealer-contractors in developing the water-heater market. Many utilities are effectively promoting the use of electric water-heaters. They are also providing, as the Commission provides for its rural and other retail customers, a maintenance service for water-heaters in conjunction with a choice of either a rental or a time-payment

purchase plan. In all, 42,500 water-heaters were installed during 1960 by the Commission and the associated municipal utilities.

#### **Deliveries of Power in Wholesale Quantities**

The table on page 95 indicates by systems the respective magnitudes of the Commission's operations for the delivery of power to municipal systems, interconnected utilities, the rural operating areas, and industrial customers served directly by the Commission. Deliveries in total during 1960 amounted to 34,554,846,788 kilowatt-hours, representing an increase of 7.0 per cent over the 1959 total. The municipal electrical utilities and the local systems owned and operated by the Commission together received 51.8 per cent of the 1960 deliveries, the Commission's direct industrial customers 26.3 per cent, interconnected utilities 13.6 per cent, and the rural operating areas 8.3 per cent. The energy delivered to direct industrial customers and interconnected utilities included 9,081,790,355 kilowatt-hours of primary and 4,714,805,404 kilowatt-hours of



secondary energy. The table on deliveries of energy in wholesale quantities is supplemented by a table on page 96 which traces the distribution of this energy to ultimate customers served either by the Commission or by the associated municipal utilities.

The commentary that follows is confined, with one exception, to the whole-sale aspects of the Commission's sales. The exception is the analysis of rural distribution which is included with the report on bulk supply to the rural operating areas so that the Commission's rural service may be viewed in its entirety. Supporting statistics on rural service, the schedule of rates, and a brief description of the classes of service are in Appendix III. Retail distribution of electricity by the municipal utilities and Commission-owned local distribution systems is the subject of the municipal service supplement beginning on page 163. The number of ultimate customers served by the Commission and the associated municipal utilities in 1960 was 1,881,472.

## MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

A total of 382 municipal systems was being served by the Commission's transmission line networks at the end of 1960. The Public Utilities Commissions of Trafalgar Township and Oakville were amalgamated as Oakville-Trafalgar Public Utilities Commission on July 1, 1960 by a special Act of the Provincial Legislature. Five municipalities formerly served under fixed-rate contracts in the Northeastern Division became cost-contract customers of the Commission during 1960. The town of Espanola, formerly supplied by a private company, became a customer of the Commission under a cost contract effective October 1, 1960. As a result of these changes the number of municipalities served under cost contracts in the Southern Ontario System declined by 1 to 326, the number in the Northern Ontario Properties rose by 6 to 24, with 4 municipalities, all in the Northern Ontario Properties, continuing to be served under fixed-rate contracts, and 28 in the Province as a whole being supplied by local systems owned and operated by the Commission.

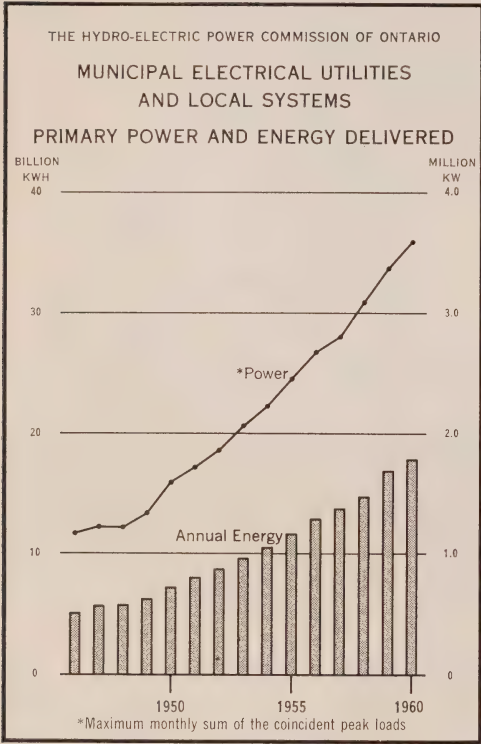


**HOME ECONOMISTS CHOOSE THE ELECTRICAL WAY**—In a program to modernize its techniques for training home economists, the University of Toronto installed 12 electric surface cooking units under a co-operative arrangement made with Ontario Hydro and the Toronto Hydro-Electric System.

During 1960, approximately 650, modern automatic electric appliances were placed in over 200 Ontario schools under co-operative arrangements of this kind.



The municipal electrical utilities are billed monthly at an interim rate per kilowatt of peak load. The monthly peak load for a utility is the maximum average demand over a period of twenty consecutive minutes in the month. As the system peak load usually occurs in December, the peak loads for that month are given for these utilities and for local systems in the statistical table (Statement "D") beginning on page 246. The sum of these loads in 1960 was 3,588,542 kilowatts, an increase of 6.5 per cent over the 3,368,571 kilowatts supplied in 1959. The energy supplied to the municipal utilities and local systems during 1960 was 17,907,540,003 kilowatt-hours, an increase of 5.6 per cent over the 16,950,730,294 kilowatt-hours supplied in 1959.



Each of the municipal electrical utilities is listed in the tables of financial reports and operating statistics that form the larger part of the municipal service supplement beginning on page 163. The books of account from which the financial information is derived are kept by the utilities in accordance with a standard accounting system designed by the Commission for use by all utilities served under cost or fixed-rate contracts. These records are periodically inspected by the Commission's municipal accountants and from time to time adjustments and improvements in accounting and office routine are recommended as the requirements of standardized

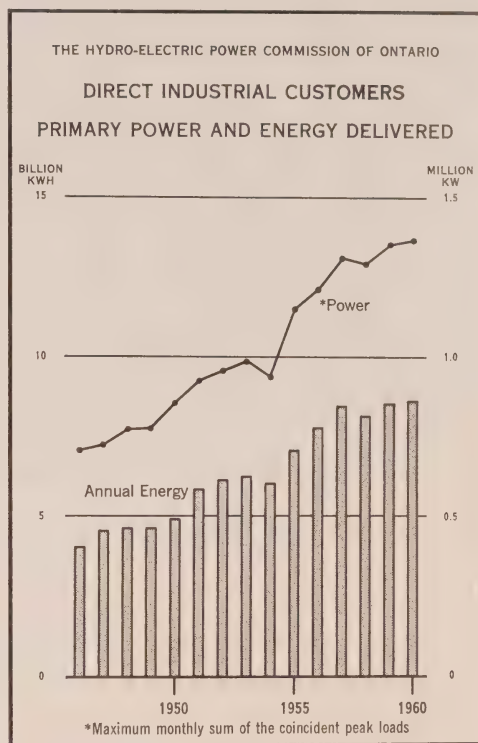
methods may dictate. This type of assistance and supervision is directed towards ensuring the correct application of the standard accounting procedure and the uniform classification of revenues and expenditures. The work carried out by the Commission's municipal accountants on behalf of the municipal utilities does not constitute an audit of the accounts. For such an audit the municipalities must make their own arrangements.

DIRECT INDUSTRIAL CUSTOMERS  
AND INTERCONNECTED SYSTEMS

The industrial customers served directly by the Commission include mines in relatively isolated areas, and industrial enterprises of many types whose requirements for power may exceed the supply capability of the local municipal

or rural facilities. The number of customers being so supplied by the Commission at December 31, 1960 was 211 as compared with 214 at December 31, 1959. In addition, thirteen independent utilities both within and beyond the borders of the Province have contracts with the Commission for the supply or interchange of power but these are not industrial customers in the generally accepted sense. Their loads are therefore not included in the table of power and energy supplied to industrial customers, or in the historical chart on this page.

The sum of the coincident primary peak loads of the Commission's industrial customers reached a monthly maximum of 1,367,708 kilowatts in March 1960, thereby registering an increase of 1.1 per cent over the November 1959 maximum of 1,352,923 kilowatts. The annual kilowatt-hour consumption in 1959 and 1960 is given by types of industry in the accompanying table, together with comparative figures on peak loads for both years. Since the peak loads in any one month do not offer a satisfactory basis for comparing the activity of one industry with that of another, the table gives the average of the monthly peak loads for each type of industry.



### Analysis of Primary Loads by Types of Industry

Total primary energy consumption by industrial customers served by the Commission rose moderately during 1960. Consumption in the steel, electro-metallurgical, and abrasives groups continued to move in an upward direction but at distinctly lower rates of growth than those prevailing in 1959, while consumption in the general manufacturing as well as in the chemical, electro-chemical, and cyanamid groups again declined as in 1959, but also at considerably lower rates. In total annual consumption, the mining sector as a whole declined by approximately 4 per cent from last year. There was a sharp reversal in the upward trend in energy consumption in uranium, base metals, and non-metals mining, but some improvement in energy consumption by gold, silver, and cobalt mining. The sharpest increases in rate of growth among the industrial customers groups were registered by the miscellaneous group, by the pulp and paper companies, and by transportation services and communications, the last

### Primary Power and Energy Supplied to Direct Industrial Customers, by Types of Industry

Type of industry	Average of the monthly peak loads		Annual energy delivered		Increase or decrease  per cent
	1959	1960	1959	1960	
	kw	kw	kwh	kwh	
Pulp and Paper.....	321,417	343,533	2,116,147,111*	2,282,342,756	7.9
Mining:					
(a) Gold.....	88,216	89,889	588,023,334	607,729,896	3.4
(b) Silver and Cobalt.....	3,350	3,710	16,996,035	19,068,249	12.2
(c) Base Metals.....	229,890	221,204	1,579,973,022	1,559,451,380	1.3
(d) Uranium.....	100,636	86,626	689,320,107	577,340,966	16.2
(e) Non-metals.....	6,623	6,304	30,070,386	28,407,210	5.5
Quarrying, Cement, and Basic Building Materials.....	37,748	37,017	218,196,911	201,212,808	7.8
Steel and Electrometallurgical.....	149,866	153,917	833,844,337	852,273,366	2.2
Abrasives.....	67,883	70,709	542,296,500	567,394,120	4.6
Chemical, Electrochemical, and Cyanamid.....	172,417	169,721	1,321,705,925	1,308,934,983	1.0
Grain Elevators and Milling.....	8,426	7,968	30,814,786	28,512,869	7.5
Transportation Services and Communications..	7,151	9,125	32,861,526	40,191,985	22.3
Government Services and Institutions.....	24,267	25,972	140,380,176	153,668,498	9.5
General Manufacturing.....	82,435	80,058	382,018,501	377,563,845	1.2
Miscellaneous.....	5,521	7,428	26,979,934	38,611,069	43.1
Total.....	1,305,846	1,313,181	8,549,628,591*	8,642,704,000	1.1

\*Revised to include 9,973,560 kwh transferred from secondary to primary.

reflecting the expansion of pipeline pumping services in the Province, and surpassing the former maximum established in 1957. The pulp and paper companies did not reach the levels of their earlier forecasts which had been in part the basis for the Commission's capital development program in northwestern Ontario. Nevertheless, the continued and relatively steady expansion in energy use by this group of customers was more than sufficient to offset the decline in the mining group.

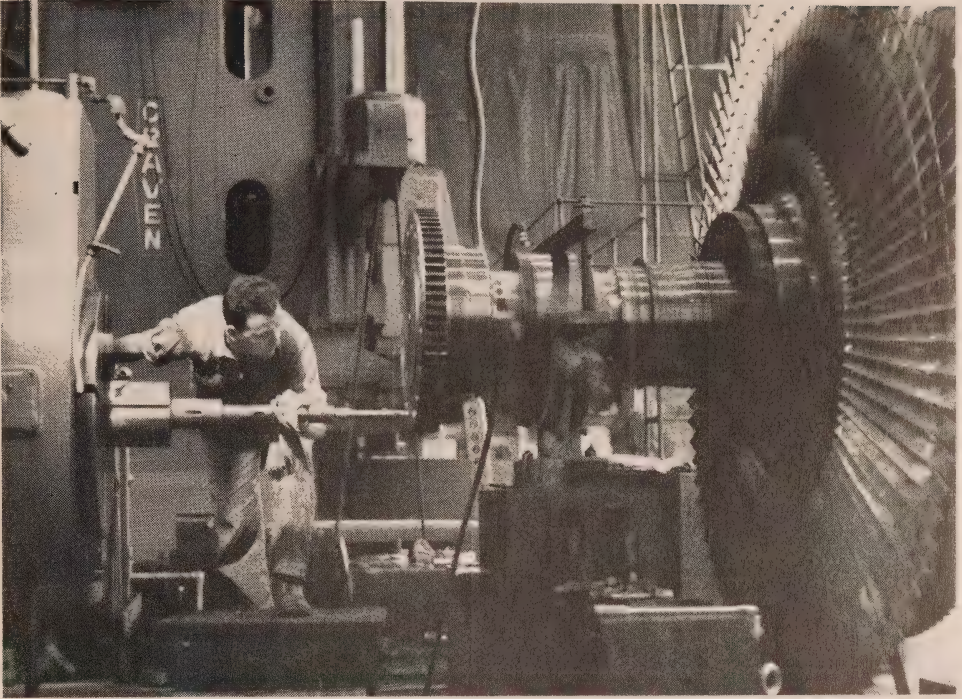
#### Primary Loads of Interconnected Systems

The corresponding primary peak and energy loads of the interconnected systems were 54,140 kilowatts in 1960 as compared with 59,924 kilowatts in 1959, and 439,086,355 kilowatt-hours in 1960 as compared with 427,183,502 kilowatt-hours in 1959. The peak load was lower than the 1959 peak by 9.7 per cent, and the energy load was higher by 2.8 per cent.

#### Secondary Energy Sales

Sales of secondary energy amounted in total to 4,714,805,404 kilowatt-hours as compared with the revised figure of 3,723,338,310 kilowatt-hours for 1959. Sales to interconnected systems rose from 3,372,672,970 kilowatt-hours in 1959 to 4,267,047,937 kilowatt-hours in 1960, and sales to direct industrial customers correspondingly from 350,665,340 kilowatt-hours to 447,757,467 kilowatt-hours.





Typical of the expansion of secondary industry in Ontario is this machining operation being carried out on a large steam turbine at a Scarborough manufacturing plant. The turbine, the first of its kind to be manufactured in Canada, is to be installed at Thunder Bay Generating Station.

## RURAL ELECTRICAL SERVICE

The table on page 46 shows that the net increase in miles of rural primary distribution lines during 1960 was 545 as compared with a net increase of 913 miles in 1959. Growth of this magnitude, like the associated net increase in number of customers served, falls far short of the annual growth that marked the major expansion program of 8 to 12 years ago. It is important to bear in mind, however, that expansion of rural facilities in some areas is offset in others by the large annexations of rural areas by growing municipalities. The future operation of the Rural Power District as a whole cannot avoid being adversely affected by the loss to municipal utilities of those areas where load is most heavily concentrated and where revenues are consequently better than average for rural service. As a result of annexations of this type the net increase in number of rural customers in 1960 was actually the lowest in sixteen years. During the 1960-61 period, approximately 40,000 rural customers will be taken over by municipal electrical utilities.

The net increase in number of customers in the Southern Ontario System was 12,074 as compared with 14,341 in 1959. Changes in particular regions reflect in part administrative redistribution of areas, for example the transfer of Oshawa and Bowmanville Rural Operating Areas from East Central to Central Region. An extensive annexation of the rural area by the City of Sudbury

Rural Power District

NET INCREASE IN MILEAGE OF PRIMARY LINES AND NUMBER OF CUSTOMERS DURING 1960

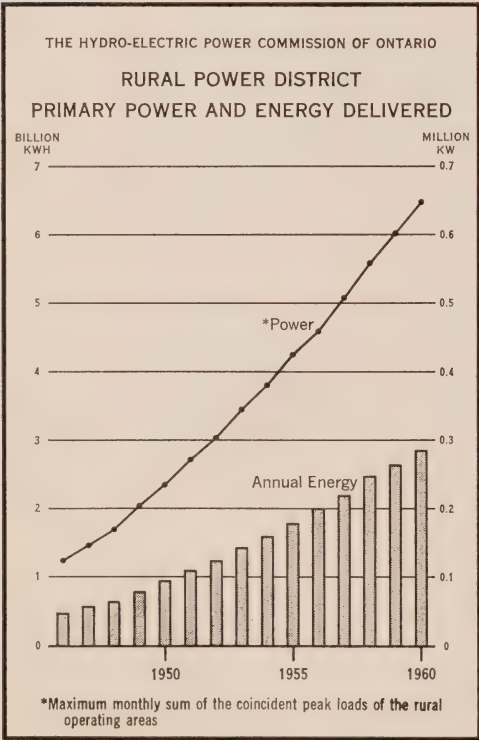
System and Region	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM									
Western.....	59.41	85	244	1,994	167	15	56	63	2,624
West Central.....	48.60	172	182	1,401	73	6	265	14	1,179
Niagara.....	7.96	74	38	745	50	9	46	8	822
Central.....	634.60	1,765	814	5,079	723	48	272	104	8,805
Georgian Bay.....	118.96	85	273	710	152	100	1,467	16	2,803
East Central.....	449.12	1,787	371	2,771	430	64	989	25	4,331
Eastern.....	120.20	119	270	1,570	61	17	456	37	2,530
Total.....	443.41	21	1,450	5,926	650	259	3,551	217	12,074
NORTHERN ONTARIO PROPERTIES									
Northeastern.....	34.55	67	154	4,528	365	43	122	43	4,684
Northwestern.....	67.50	64	154	472	112	12	133	12	831
Total.....	102.05	131	308	4,056	253	55	255	31	3,853
Total—All systems.....	545.46	110	1,758	1,870	397	314	3,806	186	8,221

Italic figures indicate decreases.

accounts in large measure for a decline of 4,684 rural customers in the Northeastern Region and a net decline of 3,853 customers in the Northern Ontario Properties as a whole. The net increase in total customers served was 8,221, bringing the total number served at December 31, 1960 to 499,291, including 140,782 farm customers. The rural distribution network included 47,896 miles of primary line.

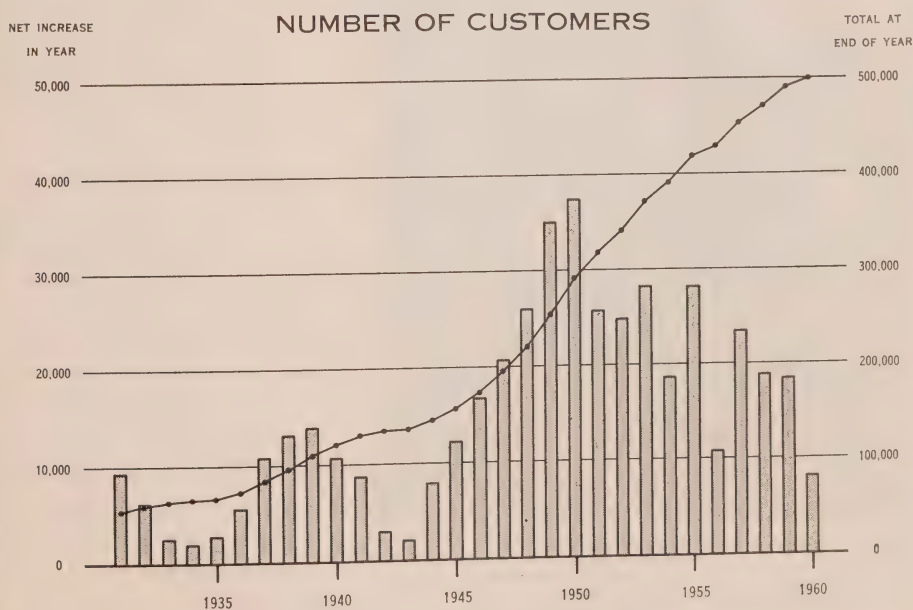
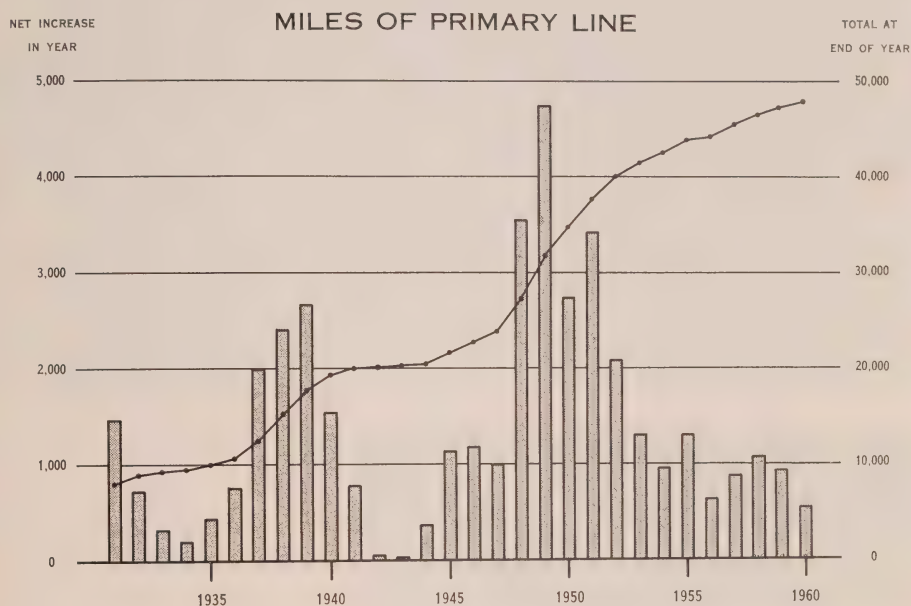
Load Growth

The monthly sum of the co-incident peak loads in the 100 rural operating areas was 647,346 kilowatts in December 1960, showing an advance of 7.5 per cent over the peak of 602,220 kilowatts in 1959. Energy supplied to the areas during the year rose by 7.4 per cent from 2,654,905,492 kilowatt-hours in 1959 to 2,850,711,026 kilowatt-hours in 1960.



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## RURAL POWER DISTRICT





All classes of service showed substantial increases in energy consumption ranging from 5.7 per cent for farm service to 13.2 per cent for industrial power service. The increase in farm service consumption, which was associated with a slight decline in the number of farm customers, is reflected in a 5.4 per cent increase in average consumption per customer, and for the sixth successive year a drop in average cost per kilowatt-hour. This average cost is now at its lowest level since 1952. Industrial power service registered the largest proportional increases among the classes of service both in number of customers and in energy consumption, and, like residential and commercial service, showed an increase in average consumption per customer and a decrease in average cost per kilowatt-hour.

Farm and hamlet service customers in recent years have consistently increased their annual energy consumption by substantial amounts, the resulting increased revenue being reflected in a reduction in the average cost per kilowatt-hour for these classes of service. The increase in revenue has, to a large extent, offset the rising costs experienced. Summer cottage residents, however, have not comparably increased their average energy consumption, so that average

revenue per customer has not grown appreciably over the past seven years. To ensure that summer service carried a more appropriate share of the cost of providing service the summer service rate structure was revised, establishing a uniform annual fixed charge for all summer services and introducing a minimum annual energy charge to supplement the annual fixed charge. The sharp increase in summer service revenue in 1960 is attributable in part to this change of rate and in part to the net increase of 3,806 new summer services. The small increase in average consumption per summer service customer indicates that customers are beginning to take advantage of the energy provided under the minimum energy charge in the rate structure.



**MODERN ELECTRICAL DAIRY FARMING** — The large insulated bulk milk cooler is the most prominent item of electric equipment in this dairy farm installation, but the fluorescent lighting and the electric heater in the upper corner of the room undoubtedly add to the feeling of comfort and convenience.



SAVING TIME AND LABOUR ON THE FARM — A barn-cleaning job that would normally require one man for 2 hours every day is completed in 12 minutes by electric machines. To many farmers, the saving in time is even more important than the saving in labour.

### Capital Investment

The net increase in the investment in rural distribution facilities at cost was \$12,639,561 in 1960, bringing the total investment in rural facilities to \$266,583,395 at the end of the year. In accordance with the terms of The Rural Hydro-Electric Distribution Act passed in 1921, the Government of Ontario has materially assisted agriculture in the Province by contributing half the capital cost of these rural electric distribution facilities. Up to the end of 1960 the contribution made under this legislation had amounted to \$115,175,265.

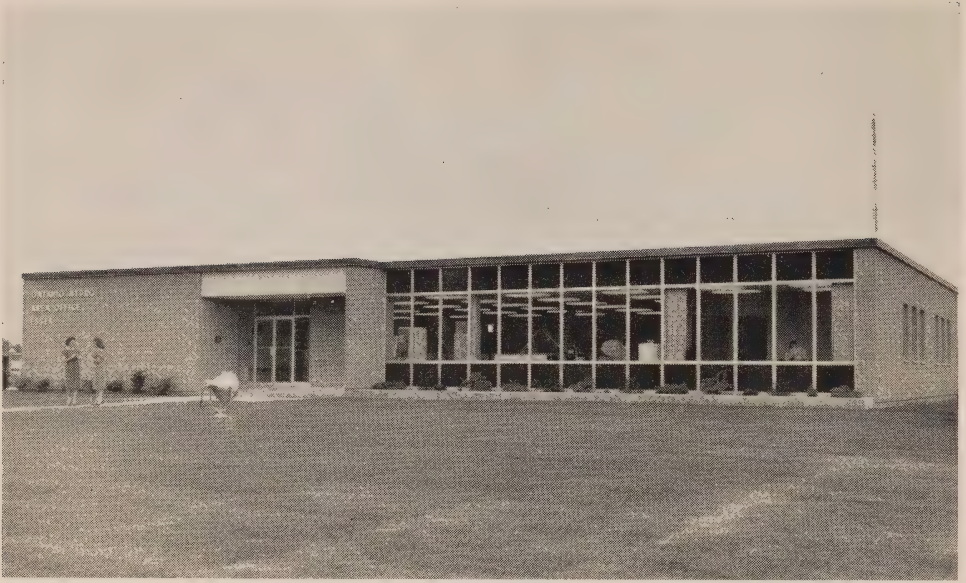
## REPORTS FROM THE REGIONS

### Western Region

The water-heater programs in municipalities in the Western Region resulted in the installation of approximately 2,600 heaters. By the end of the year there were 88 homes and 34 commercial establishments with electric heating installations. In Essex County, interest in supplementary electric heating was stimulated by making portable heaters available to customers on a trial basis. In Chatham the municipal utility, in co-operation with local appliance dealers, successfully carried out a special program for promoting the sale of electric dryers.

Municipal electrical utilities in the Western Region continued in 1960 to improve and extend their distribution facilities to meet steadily increasing demands for power. London increased its substation capacity by 4,700 kva and inaugurated a program to provide underground distribution in all new subdivisions. The utility also installed 3 miles of 13.8-kv and 4-kv underground cable





ESSEX RURAL AREA OFFICE

Administrative facilities and other services for the former Essex, Harrow, and Kingsville Rural Operating Areas are now combined in this new office. In the well-lighted, electrically heated building of functional design, space is also provided for the display of electric equipment for use in the home, and in industry.

and three transformer vaults in the downtown network. In Chatham a small residential underground distribution system was installed and a 3,000-kva station was placed in service in the northern residential section of the city. In Windsor one 5,000-kva unit of a 10,000-kva station was placed in service in the downtown area to provide greater transformer capacity for the increasing load. Other new additions were a 5,000-kva station in Riverside, two 3,000-kva stations in Sandwich East Township, and one 3,000-kva station in Sandwich West Township.

General improvements to distribution facilities were carried out also in Woodstock and Tillsonburg. A number of the smaller utilities in the Region adopted long-range plans for the rehabilitation of their distribution systems.

With the purchase of a suitable building in the town the Ingersoll Public Utilities Commission completed plans for the amalgamation of its office and service facilities.

### **West Central Region**

In the West Central Region, sales activity was increased during the year and water-heater rental programs were instituted in Burford, Plattsville, Port Dover, Princeton, St. Mary's, and Seaforth. At the year-end, 31 utilities were actively engaged in promoting the installation of electric water-heaters. Electrically heated houses have been added in the major municipalities and in a number of smaller municipalities in the Region.



As a result of annexations, a total of 2,749 rural customers and 66.7 miles of distribution lines were transferred to various municipal utilities.

Several utilities found it necessary to expand their distribution facilities by extensions, improvements, and municipal substation construction. The electrical utilities in Brantford, Burlington, Dundas, and Hamilton added to their transformation facilities. In Hagersville, in conjunction with highway widening, the distribution system along the main street was completely rebuilt using concrete poles. The distribution system in Jarvis was rebuilt for operation at 8 kv. Extensions were also carried out in underground distribution systems in the downtown sections and residential subdivisions in Brantford, Hamilton, Kitchener, and Waterloo.

A number of municipalities in the Region modernized their street-lighting systems with the installation of fluorescent and mercury-vapour units. In Hamilton the second section of the Northeastern Expressway was completed with the installation of a complete underground street-lighting distribution system and mercury-vapour luminaires on concrete standards. Guelph reached the midway point in a six-year program of converting all lighting on residential streets to mercury-vapour type.

Caledonia and Port Rowan completed the construction of new service buildings. Brantford Township, Guelph, and Stratford officially opened new electrically heated utility offices and service buildings.



STRATFORD PUBLIC UTILITY COMMISSION OFFICE — For the convenience of customers, service personnel are easily accessible at the attractively curved counter in the new utility offices. Executive offices and service departments are located behind the main office in the split-level structure.

## Niagara Region

The steady growth in number of customers and the consequent increase in demand for electricity in most utilities in the Region necessitated improvements and extensions to the electrical distribution systems. The capacities of substations at Merritton and Chippawa were increased and new substations were installed in Stamford Township and Niagara Falls. The new substation at Niagara Falls is an entirely underground, 13.8/4-kv, 1,500-kva, vault-type installation with metalclad switchgear.

Municipal utilities were quite active in the sales promotion program. Electric heating was installed in a number of homes and a variety of commercial establishments. The promotion of Medallion standards resulted in the completion of 6 Gold and 27 Bronze Medallion houses during the year.

Ontario Municipal Board orders were issued late in the year for the amalgamation of the City of St. Catharines with the Towns of Merritton and Port Dalhousie and a part of Grantham Township, for the annexation of parts of the Townships of Crowland, Humberstone, and Thorold to the City of Welland, and for the annexation of part of Grantham Township to Niagara Township. The transfer of a large number of customers with relatively high average energy consumption from rural service to service by the municipal utilities will result in a substantial decrease in the Commission's rural revenue in the rural operating areas affected.

## Central Region (formerly Toronto Region)

Although not quite as rapid as in 1959, growth in population and the use of electric energy was significant in the majority of the municipal electrical utilities in the Central Region during 1960. To meet the load growth, increased transformation and distribution facilities were required in Brampton, Etobicoke Township, Georgetown, Newcastle, North York Township, Oshawa, Scarborough Township, Toronto, and Toronto Township. A total of 21 new municipally owned substations were installed and increases in capacity were made at a number of other locations. In addition, there was a significant increase in the numbers of new industrial customers and of customer-owned substations.

By the end of 1960 more than 12,000 customers had been added to the number being served in the Region as a whole.

In built-up municipalities where there are very few new building lots available, there is a strong trend toward the construction of large apartment buildings.

The peak load supplied by Toronto Hydro-Electric System in 1960 was 615,491 kilowatts, an increase of 83,869 kilowatts, or approximately 4 per cent over the load in 1959, and transformer station capacity was increased by 19,450 kva to take care of these expanding loads. Supervisory control equipment was installed in Carlaw Station, thereby completing the program of converting system stations to remote-control operation. A total of approximately 13.8 miles of underground 15-kv power cable was installed, in part for network

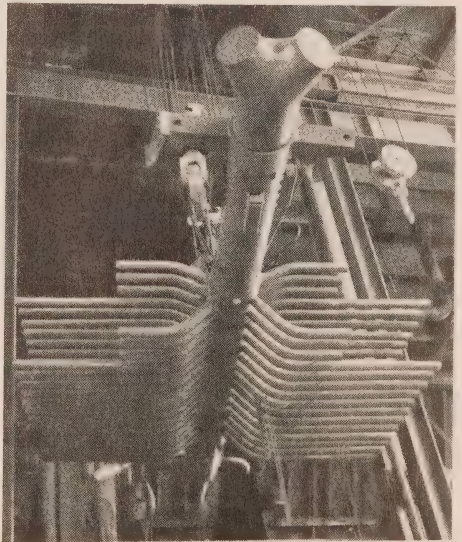
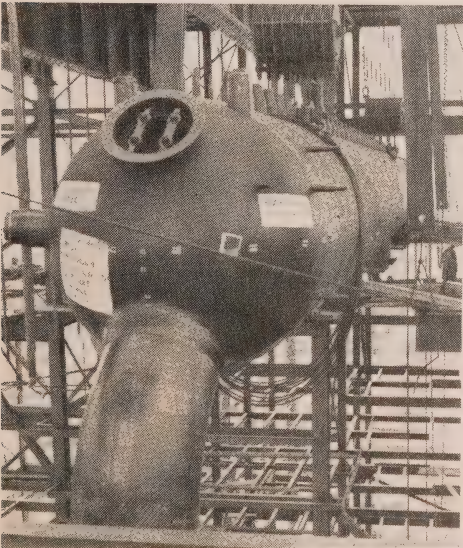


primary feeders, in part to supply system distribution stations and to provide 13.2-kv power to two new large power customers. In addition, approximately 51 miles of power cable of lower-voltage and control cables were installed underground. The underground conduit system in Toronto and Leaside was extended by the installation of 17 miles of duct and 10 underground transformer vaults. The total length of underground duct owned by Toronto Hydro-Electric System at the end of the year exceeded 2,000 miles.

By an Act of the Provincial Legislature, the Oakville and Trafalgar Public Utilities Commissions were amalgamated, effective July 1, 1960. The amalgamated utilities arranged to purchase the rural facilities located within the extended boundaries effective January 1, 1961.

Etobicoke Township Hydro-Electric Commission opened a new three-storey service centre featuring three types of electric heating, a heat pump for the control-room, baseboard heaters for offices, and unit resistance heaters for the garage and service areas. Newmarket Hydro-Electric Commission completed and occupied a new electrically heated office building during 1960, and the Richmond Hill and Scarborough utilities completed the construction of new electrically heated garage and storage buildings.

In Toronto, construction was begun on a \$2.5-million service centre. A two-storey building with a total floor area of 160,000 square feet will house the



#### LAKEVIEW GENERATING STATION

**Left:** The biggest steam drum in Canada, 212 tons in weight, was hoisted into place in May 1960. At full load the boiler will, per hour, require the consumption of 110 tons of coal and produce a maximum of 2,000,000 pounds of steam.

**Right:** This 25-ton super-heater outlet header will be an important link between the boiler and the turbo-generator. The tubing, which is made of special heat-resistant alloy steel, will convey steam at a pressure of 2,450 pounds per square inch and a temperature of 1,000° Fahrenheit.



meter and garage departments and a section of the station construction and service maintenance departments. Electric heating is being used throughout—strip heaters in the garage section and in the offices, fan-type electric heaters in the machine shop and electric shop areas, and radiant heating in the garage repair areas. The new service centre is scheduled for completion by the summer of 1961.

Following an administrative change effective March 31, 1960, and the consequent relocation of the eastern boundary of the Region, the municipalities of Ajax, Bowmanville, Newcastle, Orono, Oshawa, Pickering, and Whitby were transferred from the East Central to the Central Region.

### **Georgian Bay Region**

In order to meet growing power requirements, substation capacity was increased in Meaford and Orangeville, and the capacity of the Parry Sound municipal substation was enlarged.

During the year, general retail rate reductions were introduced in Beeton, Coldwater, Collingwood, Cookstown, Dundalk, Kirkfield, Ripley, Shelburne, Sunderland, and Tottenham. A general increase in retail rates was put into effect in Parry Sound.

The distribution voltage in Cookstown was changed from 4 kv to 8 kv in conjunction with increasing the capacity of the local substation from 300 to 2,000 kva. This station now serves both the municipality and the adjacent rural area.

The City of Barrie is now engaged in replacing all incandescent street-lights with fluorescent units. All the new lights, with the exception of those in the downtown business section, are expected to be installed by the spring of 1961.

With the increasing interest in electric heating in the Region, a total of 182 residences and 45 commercial premises were being heated entirely by electricity at the end of the year. A new electrically heated office and storeroom building was officially opened by Paisley Hydro-Electric Commission.

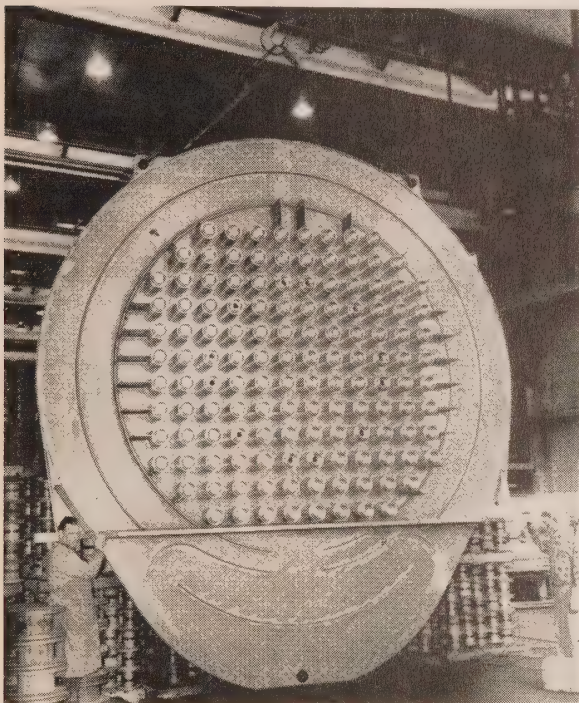
### **East Central Region**

In the East Central Region the steady growth of municipal loads in 1960 required additional substation capacity in Belleville, Brighton, Campbellford, Cobourg, Deseronto, Marmora, and Norwood. Extensive improvements to the electrical distribution systems to meet the growing loads were carried out in Bancroft, Bobcaygeon, Havelock, Lakefield, Norwood, and Trenton. Street-lighting systems in Bloomfield and Deseronto were modernized with the installation of fluorescent lighting units.

In Bancroft a modern municipal building was completed to provide accommodation for municipal services and for the Public Utilities Commission. In Port Hope the municipal utility office was completely renovated, and a heat pump was installed for heating and air-conditioning.

## Eastern Region

In the Eastern Region a substantial number of extensions and improvements to municipal electrical distribution systems included the construction in Brockville of a 7,500-kva substation, which was placed in service in 1960. This station supplies power at 8 kv to serve the rural area recently annexed by this municipality. A second stage of the primary underground distribution system in the business district of Brockville was completed. The distribution system in L'Orignal was changed over to 8-kv operation, thus eliminating the need for additional step-down transformation facilities.



**NUCLEAR POWER DEMONSTRATION**—This is the inside well wall of the reactor being installed at the 20,000-kilowatt nuclear station, which is scheduled for initial operation in 1961.

In Ottawa the number of customers increased during 1960 by 3,213, or nearly 4 per cent, to a total of 87,629. Three new substations with a total capacity of 30,000 kva were added to the municipal system. The underground network in the city was extended by 11 miles of 12-kv and 5-kv underground cable. Approximately 7,500 feet of duct line were constructed and 20,000 kva of transformer capacity were installed.

Improvements to municipal distribution systems in 1960 included the extension and modernization of street lighting on main thoroughfares. A fluorescent street-lighting system was installed in Alexandria, mercury-vapour units were added in Chalk River and Peter-

borough, over 600 new street lights were added in Ottawa, and in Brockville 31 street-lighting units were served with underground wiring in the new subdivision of Britannia Heights.

Water-heater rental and sales programs were instituted in Arnprior, Braeside, Hawkesbury, Iroquois, and Winchester. In Cobden, service was supplied to a new electrically heated school.

## Northeastern Region

Five municipalities formerly served under fixed-rate contracts became cost-contract customers of the Commission during 1960—Sudbury effective September 1, Massey and Webbwood effective October 1, and Coniston and West



Ferris Township effective November 1. Espanola became a municipal customer of the Commission on October 1, having acquired a company-owned distribution system and installed a 5,000-kva substation. Power was supplied from the new Espanola Transformer Station.

The operations of the Sudbury Hydro-Electric Commission were considerably expanded following the annexation by the city of McKim Township and part of Neelon Township. Sudbury acquired the rural distribution system and three substations supplying about 6,000 customers in the suburban area.

The distribution system in New Liskeard was changed from 2,400-volt ungrounded operation to 4,160-volt grounded operation in order to improve customer service. Additional substation capacity was provided to meet increased demands for power in Capreol, Englehart, and Kirkland Lake.

During the year the retail rates in 18 local systems were revised on the basis of the new rate structures. Sudbury Hydro-Electric Commission established a 100-ampere minimum for all new residential services, and opened a sales department to encourage water-heater sales and load building.

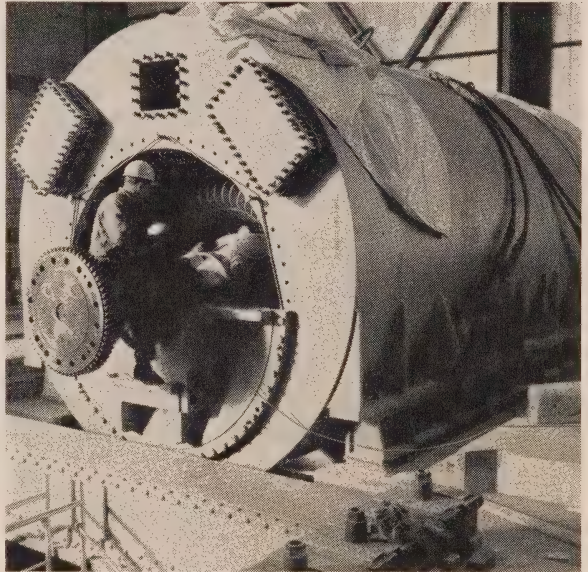
### **Northwestern Region**

Sales activity in the Northwestern Region produced encouraging response. A two-day presentation of "Hydro Showtime", sponsored by the Fort William Hydro-Electric Commission and the Port Arthur Public Utilities Commission at the Lakehead Auditorium, had a record attendance of 1,550 persons. The success of the project is attributable to the excellent co-operation of the utilities, the electric appliance distributors, and the appliance dealers.

Fort William Hydro-Electric Commission officially opened its new office building complete with a 25-ton air-conditioning unit, and an impressive display of fluorescent lighting.

In order to improve service to customers, the Beardmore local system distributing station capacity was increased and the distribution voltage was changed from 2,300-volt to 4,160-volt operation.

Reductions in retail rates to customers in Dryden and Terrace Bay were introduced in 1960.



**THUNDER BAY GENERATING STATION** — Work proceeds on the installation of the generator for the 100,000-kilowatt unit at Thunder Bay Generating Station, which is scheduled for service late in 1961.



## **PUBLIC RELATIONS AND SERVICES TO CUSTOMERS**

The Commission continued to follow the practice of the last several years in directing public attention to the advantages of using electricity, and displaying innovations in equipment, style, and appliance convenience at exhibitions, fairs, and conventions of various kinds. Convincing evidence of widespread public interest in the variety of service that electricity can provide is given every year at such displays as the Hydro exhibit at the Canadian National Exhibition, and the exhibit at the International Ploughing Match, held in 1960 near Aylmer, Ontario. A cooking school and electric appliance demonstration held in conjunction with the Ploughing Match was attended by more than 3,600 people. In all, almost 750,000 persons visited Commission displays established at local fairs and exhibitions.

There is a substantial and continuing public interest in the Commission's large engineering achievements, and approximately 201,000 visitors availed themselves during the year of the opportunity to visit one or more of the large generating stations which are open to the public. In recognition of this interest, a 30-minute film summarizing activities of the Commission during 1960 was prepared for use by schools, service clubs, and other interested groups. A series of thirteen 15-minute programs entitled "Men of Power" was prepared by the Commission for radio broadcast and it was carried by thirty-seven radio stations during 1960.

### **Inspection**

The installation of electric equipment and wiring is governed by regulations made by the Commission under The Power Commission Act. Members of the Commission's staff participate in the administrative and committee activities of national code-making bodies and find thereby the opportunity to correlate Commission regulations with the latest developments in technology and equipment recognized by the Canadian Electrical Code.

In the fulfilment of its responsibilities under The Power Commission Act the Commission issues permits covering the installation or renovation of electric equipment and through the activity of its inspection staff follows the progress of work to completion. The extent of this activity is in some measure an indication of the pace of construction work in general. During 1960 a total of 290,406 permits were issued for electrical installations, and 653,969 inspections were made by the Commission's staff.

On the basis of electrical inspection reports, the number of fatal accidents attributable to electrical causes declined from 15 in 1959 to 8 in 1960. The number of fires apparently of electrical origin was 29 in 1960 as compared with 17 in 1959.

### **Lighting**

The Academy of Lighting Arts conducted twelve of its courses in various centres in the Province during the year, and 263 persons successfully completed their training as Residential Lighting Consultants at these sessions.

In addition to providing guidance on the lighting problems of customers, the Commission's specialist staff prepared surveys, plans, and specifications for lighting installation in 128 stores, offices, and other commercial establishments, and for 67 schools and 14 Medallion Standard houses.

**Service to Industrial Power Customers**

A program of seminar-type instruction is carried out by the Commission in order to keep the staffs of industrial customers informed regarding up-to-date methods of operating their electric equipment and their plant distribution systems so that the most effective use is made of this equipment.

## SECTION IV

### PLANNING, ENGINEERING, AND CONSTRUCTION

**D**URING the past decade the capacity of the Commission's thermal-electric resources increased from a mere 53,500 kilowatts in 1950 to 995,900 kilowatts in 1960. Thermal-electric power now represents 17 per cent of the total capacity of the Commission's generating stations. The table on page 60 indicates the predominant importance of thermal-electric facilities in the power development program in the years immediately ahead, and the increasing significance of nuclear-electric facilities in the slightly more distant future. The hydro-electric potential of the Province is by no means exhausted, although there are no new major sites available for development in the Southern Ontario System. A program is already under way to develop up to 2 million kilowatts at a number of sites, chiefly in the Northern Ontario Properties. The part played by the hydraulic generating facilities now under consideration, though smaller than that of the thermal resources, will be significant in its own way.



Summary of the Power Development Program  
as at December 31, 1960

<i>System and Development</i>	<i>No. of units</i>	<i>In-service schedule</i>	<i>Capacity* kw</i>
SOUTHERN ONTARIO SYSTEM			
Richard L. Hearn—Toronto.....	8 T	1951—1961	1,200,000†
Nuclear Power Demonstration—near Des Joachims GS	1 T	1961	20,000†
Lakeview—near Toronto.....	4 T	1961—1964	1,200,000†
Douglas Point Nuclear Power—near Kincardine.....	1 T	1964	200,000†
NORTHERN ONTARIO PROPERTIES			
NORTHEASTERN DIVISION			
Red Rock Falls—Mississagi River.....	2 H	1960—1961	40,000
Otter Rapids—Abitibi River.....	4 H	1961—1963	172,000
Little Long—Mattagami River.....	2 H	1963	114,000
Harmon—Mattagami River.....	3 H	1965	110,000
Kipling—Mattagami River.....	3 H	1966	132,000
NORTHWESTERN DIVISION			
Thunder Bay—Fort William.....	1 T	1961	100,000†

\*Capacities quoted are dependable at time of system peak except those marked †, which are installed capacities.

Extensions may be made to certain major hydraulic stations already in operation. These extensions, however, will be small in relation to the present installations and will provide, in the main, only short-time peak capacity. The development of certain pumped-storage sites may also provide short-time peak power. In northern Ontario the sites which give the best promise as sources of



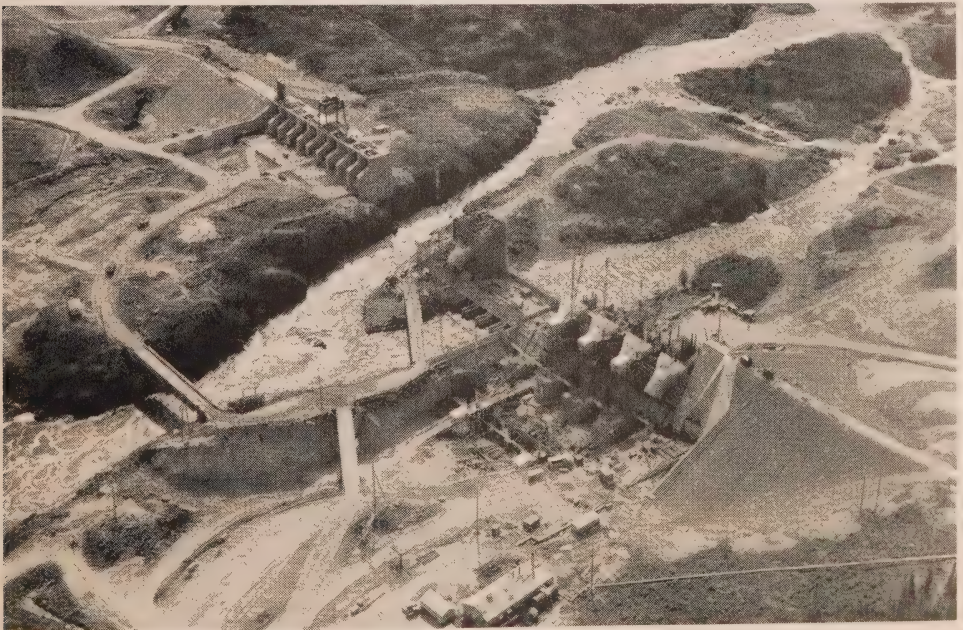
POWER DEVELOPMENT IN THE JAMES BAY WATERSHED — At Little Long Rapids, 4 miles up stream from Smoky Falls on the Mattagami River, the Commission is building the first of three power developments.



Expenditures on Capital Construction 1951-1960

	Generation	Transformation	Transmission	Rural	Other	Total
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1951 .....	94,267	25,143	17,886	22,725	4,597	164,618
1952 .....	96,682	22,954	15,628	23,033	4,534	162,831
1953 .....	117,311	21,711	15,444	24,402	4,767	183,635
1954 .....	76,649	15,360	16,091	20,133	4,585	132,818
1955 .....	68,483	12,624	10,823	18,961	3,681	114,572
1956 .....	128,245	13,464	11,424	17,244	2,626	173,003
1957 .....	151,738	17,302	19,295	17,347	3,010	208,692
1958 .....	126,204	20,688	20,806	19,556	3,402	190,656
1959 .....	98,251	20,788	12,159	19,542	3,364	154,104
1960 .....	82,506	16,624	12,230	17,687	2,992	132,039
Total .....	1,040,336	186,658	151,786	200,630	37,558	1,616,968

energy, that is, producing power at a continuous rate over extended periods of time, are located on the Abitibi and Mattagami Rivers. The present plan is to develop them in the near future, and to develop other economic sites to meet later system requirements. Some of the sites on the Abitibi and Mattagami Rivers can be conveniently developed in two stages. The first involves installation of capacities which are about half the ultimate values, but which are nevertheless capable of generating most of the potential energy of the sites. The second stage involves completing their installation at a later date to provide



OTTER RAPIDS GENERATING STATION — This picture shows progress of construction in June 1960 with the headworks for four units well advanced and flow in the western channel passing through the diversion ports. In the next stage the eastern channel was cofferdammed to permit completion of the bulkhead section to incorporate the sluiceway structure on the east bank in the completed dam.

short-time peaking capacity that will then be required by the system. This procedure will properly co-ordinate the development of hydraulic and thermal capacity to meet over-all system peak and energy requirements.

The first stage of development at Otter Rapids Generating Station on the Abitibi River was begun in 1958, and the first unit at this station is scheduled for initial operation in 1961. The first stage of development at Little Long Generating Station on the Mattagami River was begun in 1960. By 1966 the first stage at these two sites, and at Harmon and Kipling Generating Stations on the Mattagami River, will be in service, providing a total dependable peak capacity of 528,000 kilowatts.

The output of these four stations will be carried over 230-kv lines and pooled at Pinard Transformer Station, which is being built near Abitibi Canyon Generating Station. From that point a single-circuit, 460-kv transmission line, the first major transmission line of 460-kv construction in North America, will carry the power to Sudbury. Until approximately 1965 the line will be operated at 230 kv. The surplus of this generation over requirements in the North-eastern Division will be transmitted to southern Ontario over existing inter-connection facilities, augmented by additional transmission, from R. H. Martindale Transformer Station to Essa Transformer Station. These new facilities will be operated initially at 230 kv but will be suitable for future use at 460 kv.

Other economically feasible hydraulic sites, which together with those currently being developed represent the nearly 2 million kilowatts of potential capacity, are variously located on the Abitibi, Mattagami, Missinaibi, Mississagi, Montreal, and Madawaska Rivers. They have, for the most part, more value as short-time peaking resources than as energy producers.

During 1960 the principal work in the construction of generating facilities was carried out at six locations. Two are hydro-electric developments in northern Ontario, Red Rock Falls 14 miles northeast of Thessalon on the Mississagi River, and Otter Rapids 60 miles northeast of Kapuskasing on the Abitibi River. The others are Lakeview and Richard L. Hearn Generating Stations in the Toronto area, Thunder Bay Generating Station in Fort William, and the Nuclear Power Demonstration plant near Des Joachims Generating Station on the Ottawa River. Four other projects recently added to the power development program are the Douglas Point Nuclear Power Station, being built for Atomic Energy of Canada Limited, and the three hydraulic developments on the Mattagami River already mentioned.

### **Survey Work**

The preparation at Head Office of topographic plans for generating facilities and other projects involved the extended use of the stereoplotter on photogrammetric surveys for approximately 239,000 acres of ground. Surveys for engineering purposes were carried out on approximately 230 miles of transmission line right of way, and other surveys were conducted at six power development sites. A new hydrostatic level recently developed by Commission engineers has been used effectively to mark the limits of clearing for the headpond at Little



**Total Mileage of Transmission Lines and Circuits**

Voltage and Structure	Line route or structure miles		Circuit miles	
	At Dec. 31, 1959	At Dec. 31, 1960	At Dec. 31, 1959	At Dec. 31, 1960
<b>SOUTHERN ONTARIO SYSTEM</b>				
230,000-volt.....steel tower.....	2,939.27	2,940.46	3,780.81	3,783.41
115,000-volt.....steel tower.....	1,511.57	1,515.62	2,364.80	2,390.44
115,000-volt.....wood pole.....	952.29	953.20	956.90	957.81
115,000-volt.....underground cable.....	20.60	27.22	45.65	59.98
60,000-volt.....steel tower.....	11.17	11.17	12.30	12.30
60,000-volt.....wood pole.....	3.31	3.31	3.31	3.31
44,000-volt and less. wood and steel...	4,778.85	4,836.24	5,277.36	5,330.81
Total Southern Ontario System....	10,217.06	10,287.22	12,441.13	12,538.06
<b>NORTHERN ONTARIO PROPERTIES</b>				
230,000-volt.....steel tower.....	55.28	55.28	55.28	55.28
230,000-volt.....wood pole.....	251.80	251.80	251.80	251.80
115,000-volt.....steel tower.....	894.24	894.75	1,531.52	1,532.33
115,000-volt.....wood pole.....	1,476.46	1,472.65	1,476.46	1,472.65
69,000-volt.....wood pole.....	203.72	203.72	203.72	203.72
44,000-volt and less. wood and steel...	1,685.34	1,708.79	1,753.40	1,777.03
Total Northern Ontario Properties..	4,566.84	4,586.99	5,272.18	5,292.81
Total—All systems.....	14,783.90	14,874.21	17,713.31	17,830.87

Long Generating Station. This will effect a considerable reduction in the cost of this type of work.

### Office and Service Buildings

Drawings and specifications for the Commission's new Research Laboratory were prepared during the year, and in order to speed construction, separate contracts were let for the substructure, structural steel, metallic waterproofing, elevators, and superstructure. By the end of 1960 the contracts for the substructure and structural steel were completed, and work for the superstructure was well under way. Design and studies for the high-voltage test laboratory to be built adjacent to the Research Laboratory were well advanced and the preparation of drawings is to commence early in 1961.

Area offices were built at Cobourg, Dundas, and Guelph, and combined office and service buildings were built at Kenora and Essex.

## SOUTHERN ONTARIO SYSTEM

### Progress on Power Developments

Construction of generating facilities in the Southern Ontario System was confined exclusively to stations which will use either fossil or nuclear fuels. Work was rapidly approaching completion at Richard L. Hearn Generating Station in Toronto and at the Nuclear Power Demonstration plant near Des Joachims Generating Station on the Ottawa River. The first unit at Lakeview Generating Station near Toronto is scheduled for service during 1961, and Douglas Point Nuclear Power Station, between Kincardine and Port Elgin, for service in 1964.

## RICHARD L. HEARN GENERATING STATION—TORONTO

<i>Location</i>	—Eastern area of the Toronto waterfront.
<i>Installed Capacity</i>	—1,200,000 kilowatts, 60 cycles (400,000 kilowatts in 4 units, and 800,000 kilowatts in 4 units).
<i>In Service</i>	—Unit No. 1, 1951; Units No. 2 and 3, 1952; Unit No. 4, 1953; Unit No. 5, 1959; Unit No. 6 on January 7, 1960; Unit No. 7 on September 23, 1960.
<i>In-service Schedule</i>	—Unit No. 8 in 1961.
<i>Estimated Cost</i> (Units No. 5, 6, 7, and 8 only)	—\$107,700,000, including generation, step-up transformation, and high-voltage switching at the site.

Unit No. 5, which had suffered boiler damage in 1959, was returned to full service in June 1960 but was operated as a synchronous condenser for a large part of the year. Unit No. 6 was operated as a generator for the first four months of the year and subsequently also as a synchronous condenser. Unit No. 7 was operated for some weeks after the in-service date shown but operational difficulties prevented its being available at the time of the system peak in December. It is therefore not included in the figures on dependable peak capacity. Unit No. 8 is expected to be in service in March 1961.

## LAKEVIEW GENERATING STATION—NEAR TORONTO

<i>Location</i>	—On Lake Ontario just west of Toronto.
<i>Installed Capacity</i>	—1,200,000 kilowatts in 4 units, 60 cycles.
<i>In-service Schedule</i>	—Unit No. 1 in 1961, Unit No. 2 in 1962, Unit No. 3 in 1963, and Unit No. 4 in 1964.
<i>Estimated Cost</i>	—\$167,900,000, including generation, step-up transformation, and high-voltage switching at the site.

The present program of construction at this station includes four 300,000-kilowatt units so that the total installed capacity at the end of 1964 will be 1,200,000 kilowatts. Eventually consideration will be given to the extension of the station by two additional units of similar size. The site itself is capable of providing for an ultimate capacity of 2,400,000 kilowatts.

During 1960 the powerhouse building for Units No. 1 and 2 was completed, and work was well advanced on the installation of the boiler and turbo-generator for Unit No. 1 together with its auxiliary equipment. The 493-foot chimney for the first two units towers above the powerhouse structure, which itself is equivalent in height to a 20-storey building. The extensive cooling-water system for the turbo-generators was approaching completion at the end of the year and much of the structural steel for coal-handling equipment was in place. The concrete dock, now complete, will permit the largest coal-carrying vessels to unload, and

the coal-handling installations will eventually be capable of moving four thousand tons an hour from vessel to coal-pile, and two thousand tons an hour from coal-pile to bunkers.

#### NUCLEAR POWER DEMONSTRATION—OTTAWA RIVER

<i>Location</i>	—About 2 miles down stream from Des Joachims Generating Station.
<i>Installed Capacity</i>	—20,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1961.
<i>Estimated Cost</i>	—\$32,000,000, to be shared by The Hydro-Electric Power Commission of Ontario, Atomic Energy of Canada Limited, and Canadian General Electric Company Limited.

At the end of 1960 the installation of equipment in the conventional part of the generating station was almost complete and some of the minor auxiliary systems were in operating condition. The operating staff moved into the administration sector about the middle of the year. All normal building services are now supplied over the permanent connection with the power system.

The station is expected to be in service late in 1961.

#### DOUGLAS POINT NUCLEAR POWER STATION

<i>Location</i>	—On the shore of Lake Huron between Kincardine and Port Elgin.
<i>Installed Capacity</i>	—200,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1964.
<i>Estimated Cost</i>	—\$81,500,000.

The Commission is participating, together with Atomic Energy of Canada Limited, in this project, the first full-scale nuclear power development in Canada. It will use natural uranium as a fuel, and heavy water as a moderator in the reactor. The name CANDU by which the project was originally known was intended to suggest these features of its operation, features in which the whole world is continuing to show lively interest.

The Commission, under its agreement with Atomic Energy of Canada Limited, has provided a 2,300-acre site for the station, will build a transmission line linking the station with the Southern Ontario System network, will operate the station during its trial period, and will purchase the station when its operating characteristics have been proved satisfactory. The purchase price will be negotiated at a level that will permit the output of the Douglas Point station to be competitive with that of a modern coal-fired station of similar size. An operating and maintenance staff, trained at the Commission's expense, will be ready to assume responsibility when the station is placed in service in 1964. Meanwhile the services of the Commission's organization have been made available at cost to Atomic Energy of Canada Limited to assist in the design and construction of the station.



**Additional Equipment at Sir Adam Beck-Niagara Generating Stations**

At Sir Adam Beck-Niagara Generating Station No. 2 a 400,000-kva voltage-regulating transformer was placed in service on the 230-kv tie-line to the Packard Transformer Station of the Niagara Mohawk Power Corporation. A similar unit, scheduled for service in December 1961, is to be installed for the 230-kv tie-line with the Robert Moses Niagara Generating Station of the Power Authority of the State of New York.

The interchange capability of the residual 25-cycle network in the Niagara area and the 60-cycle network was increased and security was improved with the placing in service at Sir Adam Beck-Niagara Generating Station No. 1 of the 45,000-kva, 25/60-cycle frequency-changer formerly used at Chats Falls Generating Station.

**Transformer Stations**

Additions to transformer capacity in the Southern Ontario System were for the most part consolidations of the major changes that have taken place in the System over the past five years. The expenditure for new and improved transformation facilities includes construction work for three new 230-kv stations and eight new 115-kv stations and substantial increases in capacity at several stations both on the 230-kv and on the 115-kv network.

**Stations in the Western, West Central, and Niagara Regions**

At Burlington Transformer Station, preparation for the replacement of the 230-kv oil circuit-breakers was completed with the installation at the station of eight 230-kv air-blast circuit-breakers, each with a rupturing capacity of 20 million kva. In the Hamilton area the capacity of Hamilton-Gage Transformer Station was increased by the addition of a third 56,000-kva, 115—13.8-kv transformer. A fourth is being installed for service in 1961. At Hamilton-Kenilworth Transformer Station one 25,000-kva transformer and two 31,000-kva transformers were replaced by two 66,666-kva, 115—13.8-kv transformers. The capacity of Brantford Transformer Station will be more than doubled with the completion of present plans to replace the two 25,000-kva, 115—27.6-kv transformers with two 83,333-kva units. In order to meet increased loads in the Windsor area, the capacity of Windsor-Crawford Transformer Station is being increased by the addition of two 83,333-kva, 115—27.6-kv transformers which are scheduled for service in April 1961. To supply growing loads in the London area, the capacity of London-Nelson Transformer Station was doubled by the addition of two 33,333-kva, 115—13.8-kv transformers. A site was purchased, and design work is proceeding for a new 115—27.6-kv transformer station near Elmira in the West Central Region. It is scheduled for service in October 1961 with a capacity of 27,000 kva. In the southwestern area of the Region, Seaforth and Stratford Transformer Stations were raised from capacities of under 20,000 kva to capacities of 83,333 kva by the substitution of two 41,666-kva, 115—27.6-kv units for smaller units at each station.

At Niagara Parks Transformer Station in Niagara Falls, three single-phase, 25,000-kva transformers and a 75,000-kva regulating transformer were installed for the 115—69-kv interconnection with the Niagara Mohawk Power Corporation.

### **Stations in the Central Region**

The 230-kv network in the Central Region is being expanded by the addition of two transformer stations, Cooksville Transformer Station and Toronto-Sheppard Transformer Station, each with an initial capacity of 166,000 kva. Each station will have two 83,333-kva, 230—27.6-kv transformers, with a further provision for four additional and similar units at Cooksville Transformer Station and six additional at Toronto-Sheppard Transformer Station. The first will relieve the load on A. W. Manby Transformer Station and the second, serving parts of Scarborough and Pickering Townships, will relieve the load on Scarborough Transformer Station. At A. W. Manby Transformer Station the fourth 215,000-kva, 230—115—13.8-kv autotransformer was placed in service during 1960 and two 115,000-kva, 230—115—13.8-kv units were released for use at Hanover Transformer Station. Line positions are being prepared for two 230-kv circuits from Lakeview Generating Station. Engineering is under way for the addition of two 83,333-kva, 230—27.6-kv transformers to meet increased 27.6-kv demands in the area. At Richview Transformer Station the first of a new type of 230-kv oil circuit-breaker with a rupturing capacity of 20 million kva was installed. It is the first of eleven such breakers intended to replace the present breakers of 10-million-kva rupturing capacity.

Two 115-kv transformer stations are being built in the Central Region. Buttonville Transformer Station will have two 83,333-kva units and supply 27-kv power to areas at present served by Toronto-Bathurst and Scarborough Transformer Stations; Toronto-Runnymede Transformer Station, when it is placed in service in mid-1961, will have two similar units and will supply 27-kv power in parts of York, North York, and Etobicoke Townships. The ultimate installation is planned to include four units at each station. During 1960, improvements in capacity were introduced at Toronto-Fairbank and Toronto-Teraulay Transformer Stations, circuit-breakers with higher rupturing capacity were installed in Toronto-Wiltshire Transformer Station, terminal facilities were installed at Toronto-Main Transformer Station for 115-kv underground circuits from Richard L. Hearn Generating Station, and switching and bus changes were made for the same purpose at Toronto-Strachan and Toronto-Esplanade Transformer Stations. Additional reactive power was made available when the two 28,000-kva, 13.8-kv, 25/60-cycle frequency-changers at Scarborough Transformer Station were rebuilt and reconnected as four synchronous condensers.

### **Stations in the Georgian Bay Region**

In conjunction with the program for the development of power at Douglas Point Nuclear Power Station, significant changes are under way for transformer facilities in the area. Construction will begin early in 1961 for the installation of two 115,000-kva, 230—115-kv autotransformers at Hanover Transformer Station. A site for a 230-kv switching station west of Orangeville was purchased and the double-circuit line between Essa Transformer Station and Detweiler Transformer Station will be tapped at this point in 1961 to supply power at 230 kv to Hanover Transformer Station.

**Stations in the East Central and Eastern Regions**

The 230-kv facilities in the Ottawa area were expanded by the installation of two 225,000-kva, 230—115—13.8-kv autotransformers at Hawthorne Transformer Station. Increased 115-kv capacity will be provided at Slater Transformer Station where the installation of a 66,666-kva, 115—12-kv transformer will double the station capacity. Further additions are planned for National Research Transformer Station, and also for Overbrook Transformer Station where the capacity will be doubled by the installation of a 66,666-kva, 115—12-kv transformer. Two new 115-kv stations, South Gloucester and Manordale Distributing Stations, were established to serve 8-kv rural loads in the vicinity of Ottawa. Three 20,000-kva regulating transformers were installed at Ottawa Transformer Station and at Riverdale Transformer Station to serve 12-kv loads.

At Ross L. Dobbin Transformer Station, growing 44-kv loads required the installation of two 83,333-kva, 230—44-kv units, which doubled the 44-kv capacity of the station. The two 70,000-kva units at the station, which formerly stepped power down in the first of two stages from 230 to 115 to 44 kv, are now used to supply only the 115-kv network, thus raising 115-kv capacity at the station from 90,000 kva to 140,000 kva.

**Transmission Lines**

With the approaching completion of the expansion at Richard L. Hearn Generating Station and the incorporation of its increased output into the power system, the underground facilities in the Toronto area were extended by more than 14 circuit miles of 115-kv cable. An additional 0.8 circuit mile of underground cable for 230-kv operation is under construction for incorporating Lakeview Generating Station into the power system in 1961. Just over 1 mile of single-circuit, 115-kv cable was installed in a pipe available between Don Fleet Junction and Toronto-Esplanade Transformer Station. This section, a high-pressure gas, pipe-type installation, marked the first time the Commission has used a polyethylene sheath type of cable. The other sections installed during 1960 were oil-filled, direct-buried cable sheathed in lead.

Line rearrangements were carried out for 230-kv and 115-kv overhead facilities at six stations in the Toronto area. Over 5 miles of double-circuit, 230-kv line will be strung on bridge-type towers now under construction between Lakeview Generating Station and A. W. Manby Transformer Station. One extensive addition to the 230-kv network was nearly complete at the end of 1960, the double-circuit steel-tower line extending from Neale Junction near Hamilton to E. V. Buchanan Transformer Station near London and involving nearly 66 miles of line construction. From Mount Hope Junction westward the line roughly parallels the 230-kv, single-circuit line built in 1948. The new line uses aluminum, steel-reinforced conductors and galvanized steel for the overhead ground cables. It is the first high-voltage line built by the Commission in recent years using toughened glass insulators.

As part of the eventual plan to bring power from the Douglas Point Nuclear Power Station into the Southern Ontario System, and partly to improve service



in the Orangeville-Hanover area, the Commission is building a 230-kv, double-circuit, steel-tower line to Hanover from a point near Orangeville on the Essa Transformer Station to Detweiler Transformer Station line. It will be strung with aluminum, steel-reinforced conductors. The aluminum, steel-reinforced, overhead ground cables being used on this line have a much longer service life than conventional galvanized steel ground cable and their use on this line is an innovation in the Commission's transmission line design.

## NORTHERN ONTARIO PROPERTIES

### Progress on Power Developments

Brief progress reports are given in the following paragraphs on construction at Thunder Bay Generating Station in Fort William, at Otter Rapids Generating Station on the Abitibi River, and at the three Mattagami River stations, Little Long, Harmon, and Kipling Generating Stations. A more complete description is given for Red Rock Falls Generating Station, which was placed in service in November 1960.

#### THUNDER BAY GENERATING STATION—FORT WILLIAM

<i>Location</i>	—North shore of the Mission River in Fort William.
<i>Installed Capacity</i>	—100,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1961.
<i>Estimated Cost</i>	—\$26,000,000, including generation, step-up transformation, and high-voltage switching at the site.

During 1960 the main work related to site and buildings was brought close to completion. The installation of window glass for the powerhouse, and construction work for the administrative building and certain smaller structures remained to be done.

The boiler and turbo-generator are being installed, and both the high-pressure and the low-pressure piping is being erected. The switchyard structures and the main transformer are already in place.

Present schedules indicate that the unit will be tested for service towards the end of 1961.

#### OTTER RAPIDS GENERATING STATION—ABITIBI RIVER

<i>Location</i>	—60 miles northeast of Kapuskasing and 23 miles down stream from Abitibi Canyon Generating Station.
<i>Dependable Peak Capacity</i>	—172,000 kilowatts in 4 units, 60 cycles.
<i>Rated Head</i>	—107 feet.
<i>In-service Schedule</i>	—Two units in 1961 and two units in 1963.
<i>Estimated Cost</i>	—\$39,100,000, including generation, step-up transformation, and high-voltage switching at the site.

Clearing of the headpond area was almost finished by the end of 1960.



OTTER RAPIDS GENERATING STATION — Carefully graded granular material is placed and compacted for one of the earth wing-dams. In the background the gantry-crane is placing a sluiceway gate in position.

As the 1959 Report indicated, the station is being built for a four-unit installation but the necessary minimum provision is being made at this stage for the possible later addition of four more units. The headworks structure for the first four units was almost finished, and the headworks gantry-crane was in operation at the end of the year. The four draft-tubes were concreted, two of the steel penstocks were in place, and the remaining two were being erected. The powerhouse superstructure was closed in and the powerhouse cranes were in operation. The headworks structure for two of the additional units was built and concreting for the other two was under way.

The erection bay was built, sluiceways and hoists had been installed in all ten control sluices, and construction of wing-dams was finished.

#### LITTLE LONG GENERATING STATION—MATTAGAMI RIVER

<i>Location</i>	—About 42 miles north of Kapuskasing, about 4 miles up stream from Smoky Falls.
<i>Dependable Peak Capacity</i>	—114,000 kilowatts in 2 units, 60 cycles.
<i>Rated Head</i>	—91 feet.
<i>In-service Schedule</i>	—1963.
<i>Estimated Cost</i>	—\$53,800,000, including generation, step-up transformation and high-voltage switching at the site.



Access to the site is by rail from Kapuskasing via the Spruce Falls Power and Paper Company Railroad to Smoky Falls and a 2-mile railway spur constructed in 1960. The necessary local construction roads were almost completed. The permanent camp for housing and providing for the employees was established.

Clearing of the 12,400-acre headpond is under way, full advantage being taken of winter ground conditions. The Commission began by clearing 900 acres by slashing, but is now using a diesel-electric machine that has demonstrated its ability to clear wooded areas at a rate of 100 acres per week. Greater speed and efficiency may come with growing experience. The entire area is scheduled to be cleared in 1962.



**TREE CRUSHER AT WORK**—Something of the power of this diesel-electric-powered tree crusher can be gauged from the size of the trees being felled in its path. In the area being cleared for the headpond at Little Long Rapids, the unit is capable of levelling a 20-foot swath through heavily wooded land at a speed of 1.5 miles per hour.



**LITTLE LONG GENERATING STATION** — A 622-foot-long Bailey bridge spans the Mattagami River downstream from the site of the main dam, providing an important link in the access road to the powerhouse from the nearest railway.



Detailed design of the generating station structures is now under way, and construction will be carried out by the Commission's Construction Division.

The ground in the area of the project is generally flat and poorly drained, consisting mainly of muskeg to a maximum depth of 10 feet with a few outcroppings of rock along the river. As a result, approximately 5 miles of dike with a maximum height of 60 feet will be required to contain the headpond. The dikes will be built by private contractors.

HARMON GENERATING STATION (Dependable peak capacity 110,000 kilowatts  
in 3 units)

and

KIPLING GENERATING STATION (Dependable peak capacity 132,000 kilowatts  
in 3 units)

These two stations will be located, like Little Long Generating Station, on the Mattagami River, but, unlike Little Long Generating Station, they are down stream from Smoky Falls. Consideration is being given to the possibility, as at Little Long Generating Station, of providing in the initial installations for the eventual addition of further units at a later date.

Field investigations at the Harmon site were completed and preliminary engineering for a scheme of development is under way. Engineering studies are still proceeding for the Kipling site. Harmon and Kipling Generating Stations are scheduled for service in 1965 and 1966 respectively.

#### RED ROCK FALLS GENERATING STATION—MISSISSAGI RIVER

<i>Location</i>	—14 miles northeast of Thessalon and 15 miles down stream from George W. Rayner Generating Station.
<i>Dependable Peak Capacity</i>	—40,000 kilowatts in 2 units, 60 cycles.
<i>Rated Head</i>	—93 feet.
<i>In Service</i>	—Unit No. 1 on November 5, 1960.
<i>In-service Schedule</i>	—Unit No. 2 in 1961.
<i>Estimated Cost</i>	—\$19,100,000, including generation, step-up transformation, and high-voltage switching at the site.

The watershed of the Mississagi River covers an area of 3,700 square miles, for the most part within the limits of the Mississagi Provincial Forest in the Districts of Algoma and Sudbury. Between its origin in Bark Lake in the east central sector of the watershed and its outflow into Lake Huron, the Mississagi River falls approximately 940 feet. Its main tributary streams are the Aubinadong and the Wenebagon Rivers in the northern sector and the Little White River in the southeastern sector. The rivers flow through gravel-strewn gullies between precipitous hills of glacial origin to within 15 miles of the outlet of the Mississagi River where the terrain is chiefly alluvial with rock outcroppings. Of the four potential sites on the river, Red Rock Falls is the second to be developed, the first being the site for George W. Rayner Generating Station



**RED ROCK FALLS GENERATING STATION** — At this stage of construction in October 1960 the powerhouse structure was complete. In the foreground is the tailrace area, and beyond the protecting cofferdam the water rushes through the completed sluiceway structure. The first unit was placed in service in November 1960.

which is 15 miles up stream. Together the two stations take advantage of 308 feet of the 698-foot difference in level between the outlet of Rocky Island Lake, the principal storage area, and the tailrace level at Red Rock Falls. The mean available flow at George W. Rayner Generating Station of just over 3,000 cfs is augmented at Red Rock Falls by nearly 1,000 cfs from the Little White River.

The site selected provides the most economic development of the available water, combined with acceptable headpond flooding. Only one small block dam was required in addition to the power dam to establish the headpond at the 685-foot level. By lowering the natural tailrace level from 605 feet to 592 feet it was possible to obtain a design head of 93 feet at the station.

### General Description

The 952-foot concrete power dam for the 2-unit station has a conventional headworks, seven 18-foot sluices, and a log-chute. A concrete gravity dam separates the headworks from the sluiceway section, and concrete gravity dams tie both ends of the main structure into the river banks. The log-chute is in the section connecting the headworks with the east bank.

### Headworks

In the conventional headworks the two power intakes have twin inlets, each equipped with a power-operated headgate, trash racks, and provision for the later insertion of service gates. Electric hoists mounted directly above each gate



and protected from the weather by aluminum housings raise and lower the head-gates. An electric gantry-type travelling crane running on tracks provides hoisting service along the full length of the power dam.

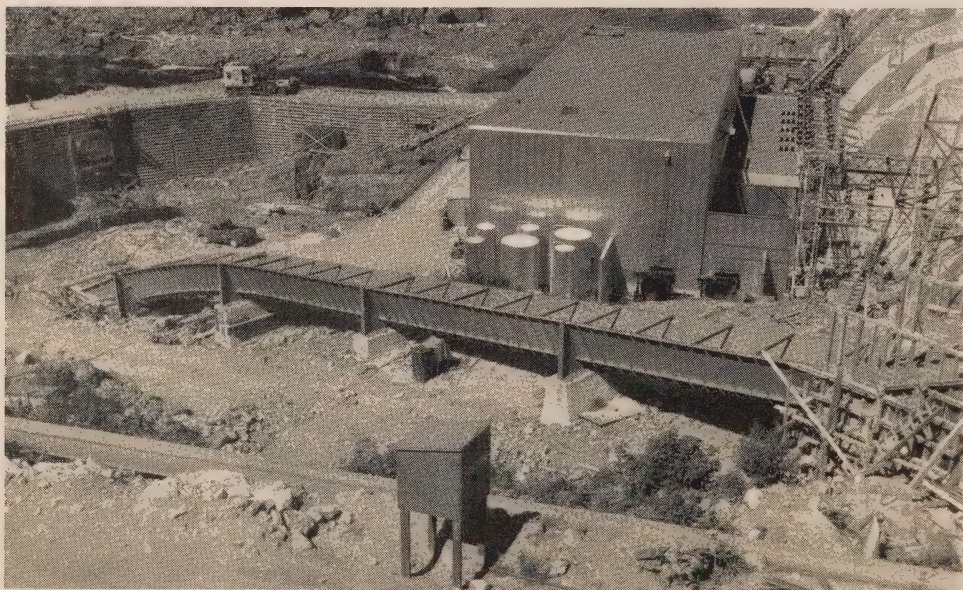
A steel penstock, 17 feet in diameter and encased in concrete, conveys the flow to each scroll-case. Improvement in welding techniques permitted, for the first time, complete welding of the two scroll-cases in the field. The one-piece, cast-steel stay-ring was machined in the shop of the manufacturer and shipped to the site together with the preformed plates for the casing. When assembled in position, the plates were welded into a single casing and this in turn was welded to the stay-ring. Elbow-type draft-tubes carry the discharge to the tailrace through two outlets, each divided by a centre pier. The main and centre piers support the tailrace deck at the level of the generator floor. An electric gantry-type travelling crane runs on tracks on the tailrace deck to provide hoisting service for the draft-tube service gates.

### **Superstructure**

The unit and the erection bay areas are enclosed by walls of insulated aluminum panels on a rigid steel frame 147 feet long by 55 feet wide, the rails of the 80-ton overhead service crane being supported by the superstructure columns 21 feet above floor level.

### **Construction Procedure**

Approximately 1,500 acres of wooded land lay between the original river channel and the 685-foot contour of regulated high-water level. By agreement, the Department of Lands and Forests of Ontario arranged through its District Forester for the salvage of as much of the forest cover as was salable, this being



**RED ROCK FALLS GENERATING STATION** — The log-chute at Red Rock Falls Generating Station in August 1960 prior to its incorporation in the wing-dam at the eastern end of the power dam. The cofferdam encloses the area for the second stage of construction, which began in May 1959.



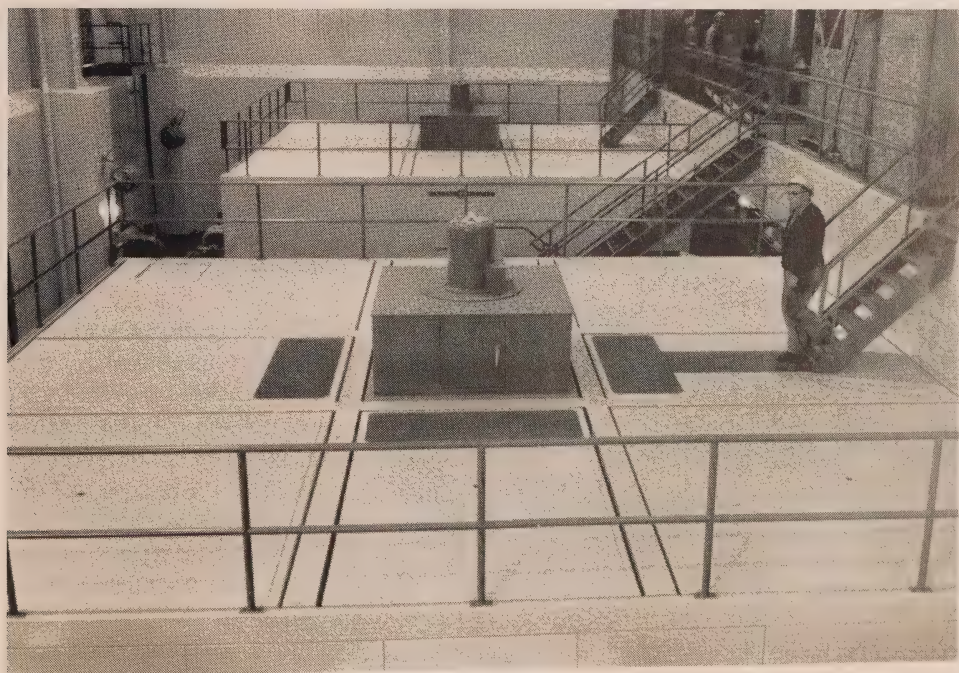
for the most part yellow birch and hard maple. The remainder was cleared by persons working in small areas under contract with the Commission.

Cofferdamming of the construction site was carried out in two stages, the first involving the eastern part of the river channel and the second, the western part, with provision being made in each stage for adequate stream-flow for log driving throughout the period of construction. In the dry area behind the first-stage cofferdams, the powerhouse, the eastern section of the power dam, and five of the seven sluices were built. One of these five sluices was temporarily left without a rollway. During the second stage of construction it was used for log driving, and regulation of flow to maintain optimum driving conditions was achieved by the use of control gates in diversion ports established in the rollways of two other sluices in this section.

In the second stage of construction the two remaining sluices were built behind a cofferdam in the western channel following the removal of part of the first cofferdam, and the diversion of the river-flow through the prepared sluiceways. The rollway in the open sluiceway was completed and the diversion ports were filled with concrete while the headpond was being raised.

### **Main Station Equipment**

The two turbines installed at Red Rock Falls were manufactured by Dominion Engineering Company Limited and are of the fixed-blade propeller type,



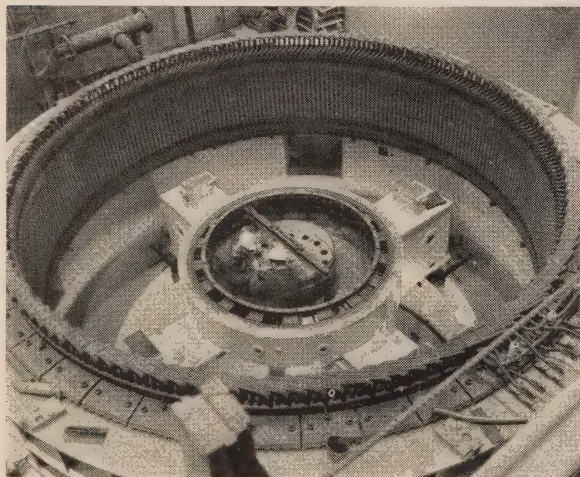
**RED ROCK FALLS GENERATING STATION** — Only the exciters of the two 20,000-kilowatt units are visible above the housings in the generator room. The station is remotely controlled from George W. Rayner Generating Station, 1.5 miles up stream.

rated at 26,500 bhp. The decision to use this type of turbine was based on the evidence of numerous model tests, extensive analysis of the problems involved, and the successful performance of fixed-blade propeller units at Robert H. Saunders-St. Lawrence Generating Station. New designs developed for such units during the past decade give promise of good performance and resistance to cavitation at rated heads almost 50 per cent greater than those considered the maximum for this type of turbine ten years ago. In addition to the mechanical advantages offered by the simplified fixed blades, these turbines have the merit of requiring less maintenance time and expense than other types, and of permitting a reduction in the cost of the associated generators.

For the first time at any of its generating stations the Commission installed the new-type electrohydraulic governors at Red Rock Falls. The electrohydraulic governor, in contrast with conventional mechanical governors, offers ease of adjustment for optimum settings, especially for units and stations under automatic frequency control. Joint control of several units and stations is also more dependable. Experience with the installation at Red Rock Falls Generating Station will have a bearing on the decision regarding the advisability of installing similar governors at Otter Rapids, Little Long, Harmon, and Kipling Generating Stations.

### Electrical Equipment

The two 13.8-kv, 60-cycle generators manufactured by Canadian General Electric Company Limited are rated at 22,500 kva, 0.90 power factor, and operate at 180 rpm. Each generator is totally enclosed by a concrete and steel housing and is cooled by four air-to-water heat exchangers. The direct-connected exciter is also totally enclosed and is cooled by air circulated through the main heat exchangers.



RED ROCK FALLS GENERATING STATION — The stator for one of the two units is shown in the process of being installed.

Step-up transformation to 115 kv is provided by two oil-immersed, forced-air-cooled transformers operating in parallel. The low-voltage windings are connected to the switchgear bus by pneumatically operated disconnect switches, and the high-voltage windings to the 115-kv bus by motor-operated airbreak switches. The 115-kv bus is

tapped into the 115-kv line from George W. Rayner Generating Station to Blind River Transformer Station with line-isolating switches on either side of



the tap. Since no 115-kv breakers are installed, power-line carrier transferred-trip equipment is used to trip remote breakers for faults in the main transformer or the low-voltage switchgear.

The station is remotely controlled from George W. Rayner Generating Station where unit automatic equipment and supervisory control equipment operating over power-line carrier channels are installed. The equipment provides for control of a maximum of forty remote operations. In all, 104 annunciation points, of which 90 are now in use, indicate such occurrences as relay operations, excessive temperatures, and low oil-levels.

## **Transformer Stations and Transmission Lines**

A new 15,000-kva, 115—44-kv station was placed in service at Espanola to supply customers in the town and in rural areas, and to provide improved service to residents on Manitoulin Island. Work was begun to clear the site near Abitibi Canyon Generating Station for Pinard Transformer Station, which will be the gathering point for 230-kv power transmitted from new generating facilities on the Abitibi and Mattagami Rivers in the James Bay watershed. At Dryden Transformer Station, two 8,000-kva, 115—44—4.2-kv transformers were replaced by two 15,000-kva units to meet increased industrial requirements.

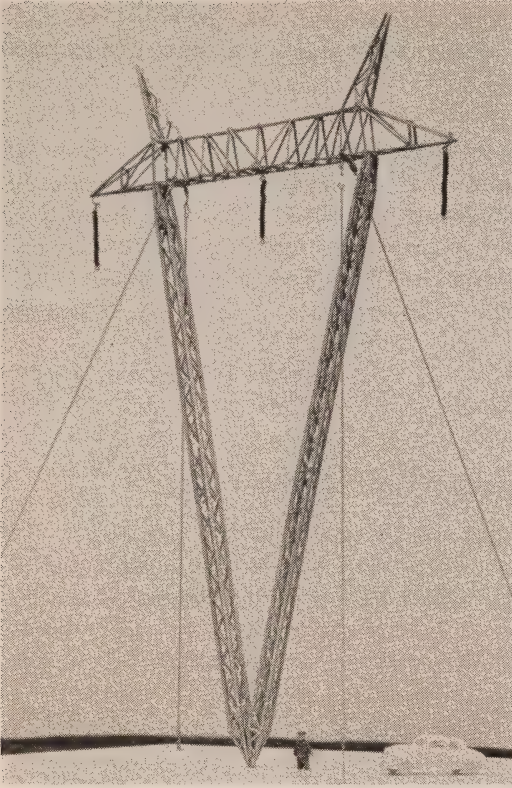
Arrangements have been completed for approximately 5 miles of right of way to accommodate two 115-kv lines which will incorporate power from Thunder Bay Generating Station into the system.

Surveying for the 460-kv line route from Pinard Transformer Station to the vicinity of Sudbury, a distance of 228 miles, was completed. The proposed designs submitted by tendering companies for 100 suspension structures to be installed on the first 30-mile section included guyed aluminum, guyed steel, tubular steel, and laminated-wood structures, as well as conventional self-supporting steel



One of the Commission's photogrammetrists takes a reading on a surveying altimeter. This information can be used in conjunction with other data in computing elevations. Survey crews mapping the Little Long Rapids area in northeastern Ontario were able to cover approximately 20 locations per day by helicopter as compared with about 4 per day by other methods.





A model of a guyed aluminum transmission tower. One hundred towers of this unusual design have been ordered for erection on a section of the 460-kv transmission line in the muskeg country north of Timmins.

towers. The selection of suspension hardware and the establishment of spacer and damper requirements for the line will be based on conductor vibration studies carried out on a 1-mile test line especially erected for the purpose at Port Credit. Two phases of 4-conductor bundles were used in the test. At the Coldwater extra-high-voltage test project, corona and radio interference tests were continued on bundle conductors.

In order to overcome costly problems in tower foundation construction in the muskeg country through which the 460-kv line passes, the Commission has evolved a new technique. Expansion anchors of the type normally used on low-voltage lines are installed to normal depth in the soil underlying the muskeg, and are back-filled with mechanically tamped crushed stone. The usual uplift movement which occurs when load is applied, though permissible for guyed wood poles, was not con-

sidered tolerable for tower foundations. This uplift can be overcome, however, by mechanically pre-loading the expansion-type anchors to the required holding capacity. When released from this initial load, the anchors are sufficiently firm to withstand reloading through the design range with virtually no movement.

## SECTION V

### RESEARCH AND TESTING ACTIVITIES

**T**HE research laboratories of the Commission are staffed and equipped to assist all Divisions of the Commission's organization by providing technical information as required in the work of design and construction, in the performance of tasks for the operation and maintenance of facilities, and in the establishment of standard specifications. The primary objective, whether in the laboratory or in the field, is the attainment of maximum economy consistent with sound engineering and efficient operation.

Effort is steadily directed towards achieving technical advances in the field of electric power. Continuous study of the relevant technical literature as well as staff participation in the work of various technical bodies keep the Commission fully informed of progress made elsewhere, and provide the basis for many important engineering decisions.

## AIDS TO DESIGN AND CONSTRUCTION

**Extra-high-voltage Transmission**

At the Coldwater test station, preliminary investigations were completed on levels of corona loss and radio interference on 4-conductor-bundle transmission lines. These investigations will facilitate selection of conductor size for the



This lineman at the Coldwater test centre is using one of the 16-foot line maintenance tools specially developed for use at extra-high voltages. The four conductors in the foreground are carrying electricity at 460,000 volts.

extra-high voltage lines north of Sudbury. One of the test lines was subsequently changed to 3-conductor bundles to provide data required for the planning of the extra-high-voltage line south of Sudbury. Other investigations were carried out on line and insulator hardware. For the first time methods were devised for relating line corona loss to actual precipitation so that losses for any annual precipitation can now be determined. Interpretation of the radio interference data obtained indicates that conductors of a given size can be operated at voltages 20 per cent higher than those previously considered to be the tolerable maxima, without exceeding acceptable radio-interference levels.

Field and laboratory investigations explored the mechanical behaviour of extra-high-voltage transmission line equip-

ped with 4-conductor bundles. Further, by the use of an analogue computer and other means, extensive study was given to overvoltages produced in extra-high-voltage systems by lightning and by internal causes, and to the performance characteristics of extra-high-voltage switchgear and protective devices.

**Power-line Carrier**

Studies related to the use of power-line carrier channels for telemetering and load control included problems of excessive noise and of attenuated signals on long 230-kv lines, the feasibility of amplifying the carrier signal at intermediate points, and the interference caused to other wire services by the carrier signals.

**Distribution-cable Joints and Terminations**

With the development of novel cable joints and terminations making use of epoxy resins and other plastics, economies can be achieved in underground installations. Less labour and skill are required for the installation of these joints and



terminations than for those of conventional design. Samples were unimpaired after prolonged tests at full cable current and twice the design voltage while immersed in water subjected to 6-hour cycles of temperature.

#### Effects of Artificial Cooling on Lead Cable Sheath

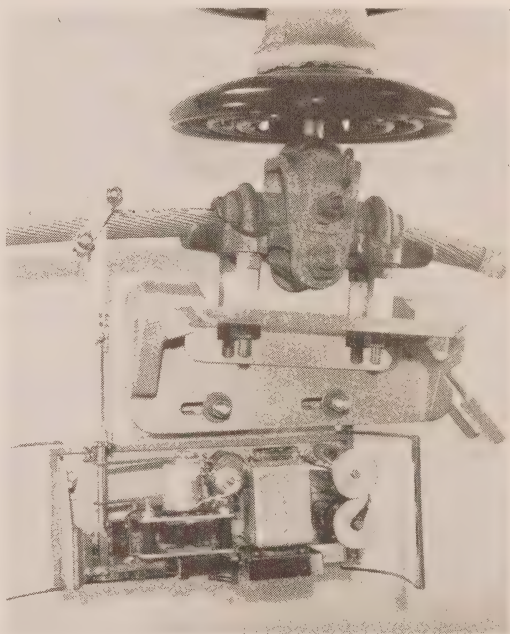
A more efficient and economical cooling arrangement for underground cable systems has been proposed as an improvement upon the arrangement of polyethylene pipes installed on a 115-kv cable circuit in Toronto. The proposal recommends the enclosure of the three cables of a circuit in a single water-carrying pipe. The possibility of fatigue failure of the cable sheath required study since temperature changes greater than those commonly experienced were expected for the proposed cable system, and fatigue failures have resulted from strains induced even by normal daily load variations. Test results indicate that sheath shear strains for a given peak conductor temperature in such a system are thirty times those in a naturally cooled ducted system, but that they are still less than half the lowest value of strain considered as likely to cause failure. Further study is required of the fatigue properties of lead, lead alloys, and other sheath materials, particularly of the newer alloys.

#### Conductor-vibration Recorder

With a view to obtaining conductor-vibration data from lines in service rather than from energized test spans, a protective live-line vibration recorder was developed. Powered by small batteries, and attachable to conductors by the use of live-line tools, it can record at half-hour intervals over a 10-day period the amplitude and frequency of vibration close to and relative to the conductor clamp.

#### Concreting Practices

At Otter Rapids, modifications in concrete-dam construction practices were adopted, including the use of low for high lifts. This permitted the use of concrete of low-cement content and lower than usual slump. Water-reducing admixtures were added and fly ash was substituted for cement with a resulting lower temperature rise in the concrete. The replacement of more than 150,000 bags of cement achieved significant economy. The placing of successive low lifts in rapid sequence also reduces the temperature difference between lifts and largely avoids the hazard of progressive cracking. Fly ash will also be used at the Little Long and Douglas Point projects. The aggregate for Douglas Point



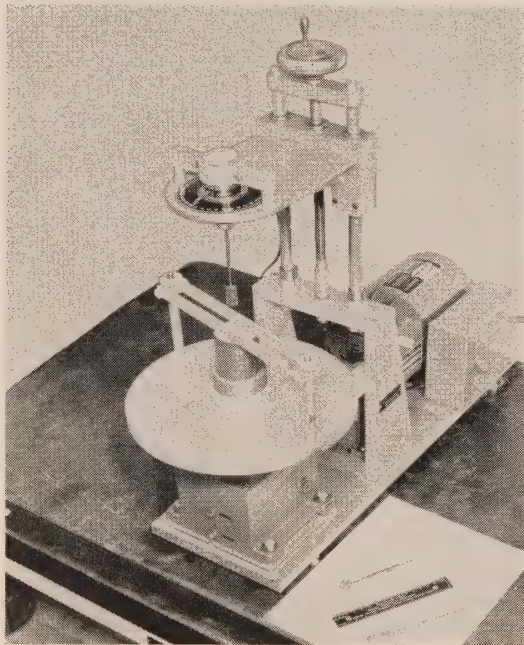
**LIVE-LINE VIBRATION RECORDER** — The Commission has developed a prototype recorder for measuring and recording vibration of transmission-line conductors while in service. The equipment is to undergo further modification.

Nuclear Power Station was found to be potentially reactive with the alkalis in cement, and would therefore have required a low-alkali cement. The combination of fly ash and normal portland cement will provide a less expensive substitute, and will result in less thermal shrinkage of the concrete.

### Soil Mechanics

Piezometer measurements of pore-water pressures in the reservoir dike at Sir Adam Beck-Niagara Pumping-Generating Station indicate that pressures under steady water-level conditions are almost exactly those predicted but that pressures are considerably higher than expected under draw-down conditions. Laboratory studies now being carried out to find a satisfactory explanation for this condition should provide information of value for the design of future structures.

The results of triaxial testing of soils as they naturally occur are insufficiently consistent to serve as a basis for comparison of shear strengths. In an attempt to eliminate the effects of sample variations in testing, a large quantity of clay from the Niagara area was dried, mixed, and then slurried. Extensive triaxial tests on this uniform material have produced consistent results, particularly in regard to drained and undrained samples. The method developed will be adopted for shear testing of soils from future projects.



### Thermal Insulation

With the trend towards increased use of thermal-electric generating facilities, a comprehensive program was begun for the evaluation of insulating materials designed for high-temperature applications in thermal-electric stations. Equipment was constructed to measure thermal conductivity, hot-surface resistance, and the maximum-use temperatures of commercial insulating materials. Manufacturing techniques, changes in thermal gradients, temperature rise rates, and the effects of cycling are

**MEASURING SHEAR STRENGTHS OF CLAYS**—The vane apparatus shown is used for laboratory measurement, not only in routine testing but also in evaluating, under controlled conditions, testing techniques which involve the use of full-scale field apparatus.

being studied with a view to eliminating, or at least minimizing, some of the defects displayed by the materials.

### Elastomers

Special elastomeric materials are being used for a widening variety of applications. As a result, laboratory investigations are being extended for the

purpose of establishing design and performance standards for the guidance of manufacturers. In particular, a low-temperature, vibration-suppressing, organic-type rubber is required for use in transmission-line vibration dampers, bundled-conductor spacers for extra-high-voltage lines, transformer mounting pads, and other applications. A jointing technique was developed for neoprene rubber used in the preparation of O-ring gaskets for turbine generators. Specifications were raised to take advantage of higher-quality rubbers now available for hydraulic gate seals.

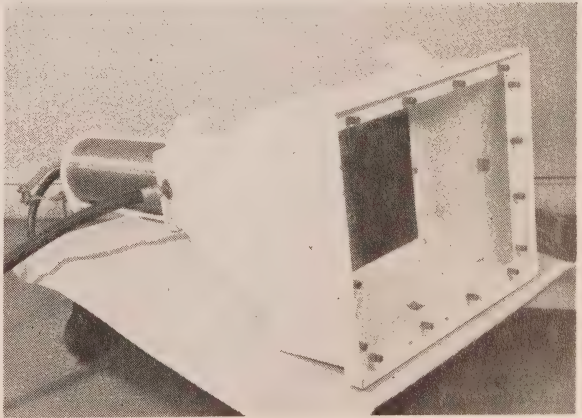
### **Nuclear Power Station Design**

Investigations have been undertaken and certain recommendations have been made with respect to specific problems of design for the Douglas Point Nuclear Power Station. A special bituminous coating was recommended for the interior of the 400,000-gallon emergency drowse tank, and the use of a resilient thiokol filler was recommended for sealing cable ducts entering the reactor area. The impermeability to gaseous reactor products of vinyl protective coating for walls, and the feasibility of using a spray-applied foamed urethane thermal insulation on the exterior of the steel reactor dome were investigated. This insulation was evaluated for its durability and its permeability to vapour.

## **AIDS TO OPERATION AND MAINTENANCE**

### **Synthetic-fibre Ropes**

For certain applications, synthetic-fibre ropes are being used in place of manila ropes. Before these new types of rope were adopted for use, comparative studies were made of the characteristics and performance of the various types. Experience with synthetic-fibre ropes has been generally favourable and future savings through their use may be considerable. They have proved stronger and more durable than manila rope, have high resistance to chemicals and fungi, low moisture absorption, and relatively high dielectric strength under all conditions. Since all currently available synthetic-fibre ropes are made of thermoplastic materials having low melting points, they are not suitable for applications where their melting temperatures might for any reason be exceeded.



**CLOSED-CIRCUIT TELEVISION CAMERA** — A camera, enclosed in a metal container 6.5 inches in outside diameter and just visible at the left, is used for inspecting locations either dangerous or inaccessible to human observers. When it is to be used in murky water, the camera is fitted with the removable conical attachment shown, which is kept constantly filled with clear running water.

### **Closed-circuit Television**

A closed-circuit television camera can now replace the bore-hole and cable-duct cameras previously used in viewing hazardous or inaccessible locations.





**MEASURING LOAD-CARRYING CAPACITY OF ICE COVER**—Using a representative sample core of ice obtained by the auger device, left, the small battery-powered meter shown on the right will indicate in tons the safe load-carrying capacity of ice cover.

The camera, fitted with a water-tight case and a clear-water “cone” to facilitate observation in murky water, was given a trial use at Lakeview Generating Station in an examination of the piling and the lake-bottom, where it proved satisfactory for the purpose. The same camera was used to examine the steam pipes at Richard L. Hearn Generating Station, and in a much more extensive operation for the inspection of nearly 4 miles of 8-inch sewer pipe and some 6-inch sewer pipe in one of the new municipalities in the St. Lawrence Power Project area.

#### **Wind-speed and Wind-direction Indicator**

Although the spraying by helicopter of rights of way to control woody growth is confined for the most part to sparsely settled non-agricultural areas, care must be taken to avoid spray drift from the target area. Accurate measurement of speed and direction of wind at the height of the flight path is most important. A simple indicator was devised using a balloon filled either with hydrogen or helium and tethered by a nylon line which, by its relation to established horizontal and vertical scales, indicates the wind direction and speed. Field trials of the instrument indicate that its use will facilitate spraying operations and thereby achieve savings.

### **OTHER INVESTIGATIONS**

#### **Electric Water-heating**

Tests and studies were continued with the object of achieving the optimum in efficiency, durability, and performance of water-heaters supplied by the Commission. Most of the utilities with water-heater rental or sales programs specify units approved by the Commission. The one-year survey of the load characteristics of heaters equipped with high-wattage upper elements was

completed. Preliminary findings were confirmed, that the average demand per customer for a large number of these services was considerably less than had been supposed. The study contributed to a review of water-heater billing demands and of the suitability of high-wattage upper elements for providing improved service at little increase in cost to the customers. With a view to mitigating the problem of scale deposits on immersion heating elements, field tests were made on units equipped with elements of various watts densities, watts density being the ratio of power input to surface area of the element. Elements with lower watts densities gave the more satisfactory performance even in waters where heavy scaling was to be expected.

### **Promoting Safe Practices**

On the basis of tests carried out at the Commission's laboratories, instructions have been issued on the use of fire-hose streams near live electrical apparatus. Lectures and demonstrations have been given to approximately 4,500 persons on the feasibility of such operations and the safe operating distances that must be observed. Further demonstrations of the same kind are planned.

In the interests of reducing hazards to men and machines a review was made of the operating conditions for the Commission's mobile cranes, which have capacities ranging from 5 to 45 tons. In particular, tests devised to indicate the distribution of stress in the boom members showed that the stress in one leg of the loaded boom of a crane on a  $3\frac{1}{2}$ -degree slope was 60 per cent greater than if the crane were on a level surface.

A small, portable, battery-powered device was designed and built for measuring the load-carrying capacity of an ice sheet. Ice cores required for use in the measuring device are obtained by using a core drill designed to be driven by an automobile-type starter motor. The motor may be operated from the battery of a light vehicle. A meter scale will show quickly and conveniently whether a given vehicle may operate safely on the ice cover.

### **Protection for Concrete Poles**

Laboratory studies indicate that poles of air-entrained concrete excel those of ordinary concrete in their resistance to deterioration from exposure to the calcium chloride used in winter for melting snow and ice on roads. It also appears that treatment of the pole surfaces with such substances as linseed oil and silicoes provides a means of protecting concrete that has not aged sufficiently to offer adequate resistance to the action of chlorides.

## SECTION VI

### STAFF RELATIONS

**T**HE provision of electric power is basically important in so many ways that the general public quite properly expects the maximum guarantee of service continuity from those who undertake to supply so indispensable a service. The Commission fully appreciates its good fortune in having a staff highly qualified in engineering and administrative experience in the performance of this function. There is also ample evidence that the loyalty and zeal displayed by the staff in the performance of their duty are widely recognized by the customers they serve.

At the end of 1960 there were 1,618 persons in the Commission's Quarter Century Club for employees with long service records, of whom 953 were still active members of the staff. Of the active members in this group, all of course have served for 25 years or more, and 105 have completed over 40 years of service with the Commission.



### Employment Statistics

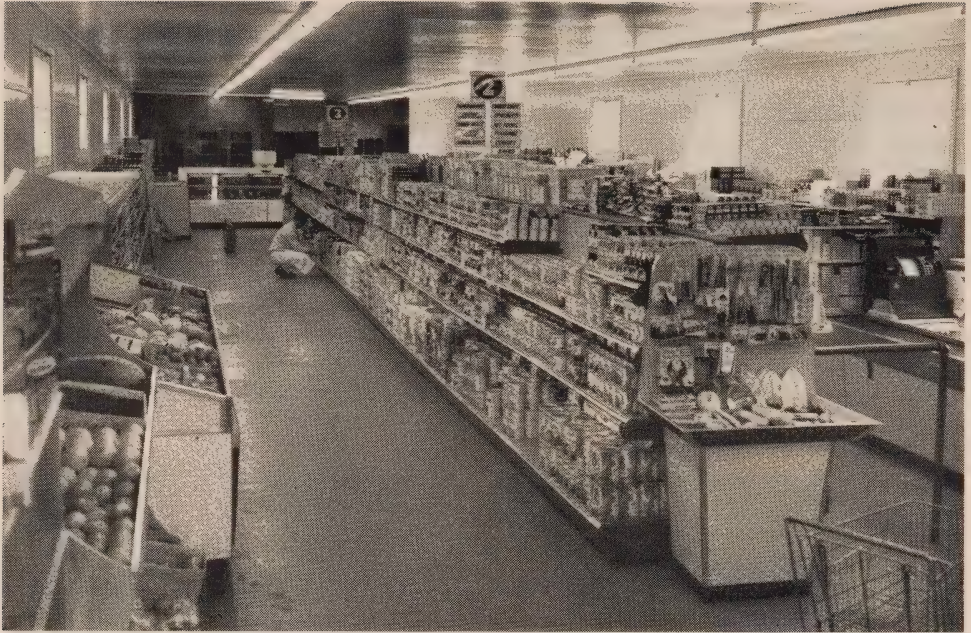
The average number of employees declined in 1960 to 15,179, the third decline in the past three years. This marks the final stages of a difficult period of readjustment following the completion of frequency standardization and of certain unusually large construction projects. Over the same three-year period more than 1,200 persons, including particularly valuable experienced personnel, have been satisfactorily relocated in the organization following completion of special tasks to which they had been assigned. Technological improvement and the use of automatic equipment, however, have enabled a smaller staff to carry the gradually increasing work load. The average staff for the year includes 12,731 regular and 2,448 temporary employees. The maximum number employed during the year occurred in August when there were 16,071 on the staff, including the maximum for the year of 3,380 temporary employees engaged for the most part in construction.



**LITTLE LONG GENERATING STATION** — Members of the supervisory staff and their families are housed in these comfortable cottages. A four-room school, eventually to be expanded to six rooms, provides for the grade school education of the children at the project.

### Manpower Planning and Development

The Commission's staff training programs are being continuously improved and expanded. The relatively limited number of trades courses offered ten years ago has now been broadened to include training in many trades as well as in technical and administrative occupations. For instance, journeymen are given theoretical and technical training which they would find difficulty in acquiring in their daily work. The training given meter and relay technicians will enable them to assist engineers to a greater extent. In the management and supervisory courses which were initiated four years ago, the numbers of persons participating in 1960 were larger than those in any of the other courses currently



**LITTLE LONG GENERATING STATION** — A Commission-operated store provides shoppers at this outpost of Hydro activity with most of the advantages of the modern urban supermarket.

being given. In addition, special comprehensive programs have been developed to serve specific needs as they arose, for example, in electronic data processing and in sales techniques.

The growing importance of training more senior management personnel was critically examined during 1960 and this type of staff development was placed upon a more regular basis. Plans were also laid for the evaluation of results obtained from the expanded program.

#### **Industrial Relations**

The Commission renewed agreements with the agencies bargaining on behalf of the large majority of the employees—the two principal agencies being the Ontario Hydro Employees Union, a local of the National Union of Public Service Employees (CLC), and the Allied Construction Council, an association of a number of construction craft unions. A settlement with the Employees Union, reached only after the commencement of conciliation procedures, was effective for one year from April 1, 1960. In addition to wage increases it provided for the extension of employee benefits, including a provision for reducing the work week for certain weekly-salaried employees in two steps to 35 hours by April 1961, and an increase in the medical and hospitalization premiums to be assumed by the Commission from 70 to 75 per cent of cost. Cost-of-living escalation will be eliminated in the future from all contracts of one-year duration. The agreement reached with the Allied Council was for 18 months commencing July 1, 1959.

During the year the employees at the two major thermal-electric stations indicated that they no longer wished to be represented by the International



Union of Operating Engineers. An application for certification was made by the Canadian Union of Operating Engineers as bargaining agents on their behalf. Certification was granted by the Ontario Labour Relations Board on December 19, 1960 and negotiations for an agreement with the new Union were begun early in 1961.

The Commission continued an industrial relations service initiated during 1959 for the purpose of assisting municipal utility management. Several seminars were held in association with a committee of the Association of Municipal Electrical Utilities of Ontario. Further sessions are planned for the guidance of their superintendents and foremen in dealing with day-to-day industrial relations problems.

### **Accident Prevention**

The completion of more than a million man-hours without a lost-time injury is a highly commendable achievement. The staffs in three Regions were awarded the National Safety Council Award of Merit for achieving this enviable record in 1960—the East Central Region for 1,000,126 man-hours without experiencing a disabling injury, the Niagara Region for a corresponding 1,463,114 man-hours, and the Eastern Region for extending their 1959 achievement to 2,161,669 man-hours. Performance of this quality is a major factor in the over-all improvement in the ratios of the number of accidents, and the severity of these accidents, to man-hours worked as measured by the American Standards Association method. The first, or accident frequency ratio, was reduced by 15 per cent from 13 per million man-hours in 1959 to 11 per million in 1960. The second, or severity ratio, was unchanged from 1959 but was 43 per cent lower than the average for the period 1955 to 1959 inclusive.

The ratio of motor vehicle accidents per 100,000 miles travelled declined for the sixth successive year, and at 1.1 marks another very commendable achievement. It is 27 per cent below the average for 1955-1959 inclusive. This undoubtedly reflects the Commission's insistent emphasis on safe driving practices as well as the increased participation by the employees in programs for developing safety consciousness. Four employees qualified for participation in the Provincial "Roadeo" contest in November 1960.

Special recognition is given to those employees, who, through the observance of good safety practices or the thoughtful application of instruction, have saved themselves or others from possible fatal injury. For example, the wearing of hard hats is mandatory in certain areas in conformity with sound industrial practice. The Commission strongly emphasizes the importance of this instruction in commending nine employees who owe their escape from injury to the observance of this rule.

The Canadian Electrical Association Medal Award was given to Mr. J. K. Marshall of the Commission's Construction Division and Messrs. F. Ruse, E. C. Todd, J. M. Reburn, and D. Eastman of the Lakefront Area staff for their part in resuscitating a fellow member of the staff, Mr. Jurij Graf, who had suffered severe electric shock. Mr. R. E. Ritchie of the Barrie Rural Operating Area was awarded the President's Medal of the National Safety Council for his part in resuscitating a man from drowning.



**Medical Services**

The staff continues to make good use of medical and nursing services provided by the Commission, and this may well have been a significant factor in maintaining the general health of employees at an above-average level.

In isolated construction areas where normal facilities for medical service are not otherwise available, the Commission establishes its own services for the benefit and convenience of the staff. The most recent addition to hospital services in the field is the new hospital at Little Long Rapids, which was placed in service early in January 1961.

The Commission, having recently reviewed the operation of the sick leave plan, introduced extensive modifications in the plan during 1960 to provide improvement in benefits that will apply particularly to employees with records of long service. Since health is obviously more likely to decline with advancing age, an employee's benefits are no longer limited by the ceiling formerly placed on the amount of sick leave that he may accumulate over his years of service. For those with 15 years of service, sick leave credits used for an illness will in future be re-established on the employee's first policy anniversary following a 12-month interval and not after a 5-year interval as heretofore.

First-aid instruction was given in 1960 to approximately 4,100 employees throughout the Province.

## APPENDIX I—OPERATIONS

THE tables in Appendix I are supplementary to the descriptive information on the year's operations given in Section I, and to information relating to the delivery of power and energy in wholesale quantities given in Section III.

The table of power resources and requirements gives for each system and in total the primary peak requirements for the month of December, and the dependable capacity of the Commission's resources at the time these peak requirements occurred. A separate table on pages 92 and 93 gives the December dependable capacity and maximum output of each Commission-owned station and each source of purchased power. The dependable capacity of a station is the net output which it can be expected to supply at the time of the system primary peak requirements, assuming that all units are available and that the supply of water is normal. This capacity may be recalculated from time to time in accordance with changing conditions. The capacity of a source of purchased power is based on the terms of the purchase contract.

The Analysis of Energy Sales on pages 96 and 97 shows how the kilowatt-hours generated or purchased by the Commission and the associated municipal utilities were distributed to the various classes of ultimate customers or to interconnected systems.

Statistics of peak loads and capacities are given, as elsewhere in the Report, in kilowatts rather than in horsepower. The kilowatt figures may be converted to horsepower by assuming that one horsepower is equivalent to 0.746 kilowatts.

## THE COMMISSION'S POWER RESOURCES—1960

		Dependable capacity*	Maximum output*	Annual energy output (net)
Southern Ontario System		kw	kw	kwh
<i>River</i>	<i>Hydro-electric Generating Stations</i>			
Niagara	‡Sir Adam Beck-Niagara No. 1 . . . . .	440,000	389,000	2,861,744,800
	‡Sir Adam Beck-Niagara No. 2 . . . . .	1,335,000	1,272,000	8,490,732,300
	Pumping-Generating Station . . . . .	150,000	152,000	119,467,800
	†Ontario Power . . . . .	135,000	138,000	1,062,350,000
	†Toronto Power . . . . .	108,000	102,000	729,747,400
Welland Canal	DeCew Falls No. 1 . . . . .	26,000	36,000	149,235,100
	DeCew Falls No. 2 . . . . .	130,000	134,000	822,643,000
Muskoka	Ragged Rapids . . . . .	7,500	8,400	40,304,600
	Big Eddy . . . . .	7,100	7,950	35,907,565
South Muskoka	South Falls . . . . .	4,200	4,550	26,144,960
	Trethewey Falls . . . . .	1,600	1,700	10,658,400
	Hanna Chute . . . . .	1,200	1,400	8,777,900
Beaver	Eugenia . . . . .	5,400	5,240	25,488,200
Severn	Big Chute . . . . .	4,300	4,320	30,241,200
Saugeen	Hanover . . . . .	250	295	1,139,520
Magnetawan	Burks Falls . . . . .			198,000
Trent	Heely Falls . . . . .	11,150	12,300	72,901,740
	Ranney Falls . . . . .	8,350	8,790	54,128,180
	Meyersburg . . . . .	5,100	5,700	34,769,610
	Sidney . . . . .	3,350	3,450	17,270,400
	Hagues Reach . . . . .	3,250	3,995	19,474,810
	Seymour . . . . .	2,950	3,160	18,034,080
	Frankford . . . . .	2,550	2,900	14,472,000
	Sills Island . . . . .	1,550	975	5,581,240
Otonabee	Auburn . . . . .	1,750	1,810	10,241,120
	Lakefield . . . . .	1,650	1,590	7,205,080
St. Lawrence	Robert H. Saunders-St. Lawrence . . . . .	657,000	752,000	6,159,448,000
Ottawa	Des Joachims . . . . .	372,000	376,800	2,431,874,500
	Otto Holden . . . . .	210,000	224,400	1,296,318,600
	Chenau . . . . .	117,000	117,000	747,266,400
Madawaska	Chats Falls (Ontario half) . . . . .	82,000	86,200	469,660,300
	Stewartville . . . . .	63,000	65,500	255,570,300
	Barrett Chute . . . . .	42,000	42,200	225,059,000
	Calabogie . . . . .	4,400	4,470	25,882,590
Mississippi	High Falls . . . . .	2,450	2,800	15,202,560
	Galetta . . . . .	800	335	3,663,360
Rideau	Merrickville . . . . .	900	278	3,568,770
Total hydro-electric . . . . .		3,948,750	.....	26,063,437,785
<i>Location</i>	<i>Thermal-electric Generating Stations</i>			
Windsor	J. Clark Keith (steam) . . . . .	244,000	187,500	21,541,200
Toronto	Richard L. Hearn (steam) . . . . .	750,000	390,000	143,527,700
Total thermal-electric . . . . .		994,000	.....	165,068,900
Total generated—Southern Ontario System . . . . .		4,942,750	.....	26,228,506,685
<i>Sources of Purchased Power</i>				
Detroit Edison Company . . . . .			111,000	70,068,000
‡Niagara Mohawk Power Corporation . . . . .			210,000	159,591,000
†Canadian Niagara Power Company, Limited . . . . .		15,000	25,000	109,675,000
Power Authority of the State of New York . . . . .				57,361,000**
Quebec Hydro-Electric Commission . . . . .		187,000	.....	2,696,598,000
Gatineau Power Company . . . . .		239,000	248,000	1,473,915,500
MacLaren-Quebec Power Company . . . . .		93,000	100,600	632,778,000
Ottawa Valley Power Company . . . . .		82,000	86,200	471,003,700
Miscellaneous (relatively small suppliers) . . . . .			.....	5,319,704
Total purchased—Southern Ontario System . . . . .		616,000	.....	5,676,309,904

† 25 cycle.

‡ 25 and 60 cycle.

\* The power capacity and output referred to in this table are 20-minute peaks for the month of December. Since the various maximum outputs do not coincide, their sum is not the peak load of the system.

\*\* Includes 49,977,000 kwh wheeled to Niagara Mohawk Power Corporation for Power Authority of the State of New York.



## THE COMMISSION'S POWER RESOURCES—1960

		Dependable capacity*	Maximum output*	Annual energy output (net)
Northern Ontario Properties				
NORTH EASTERN DIVISION		kw	kw	kwh
River	Hydro-electric Generating Stations			
Abitibi	†Abitibi Canyon.....	232,000	226,200	1,373,388,000
Mississagi	George W. Rayner.....	47,000	46,000	340,114,560
	Red Rock Falls.....	20,000	20,600	20,496,800
Mattagami	†Wawatina.....	10,800	11,000	60,963,444
	†Lower Sturgeon.....	6,000	6,000	44,195,298
	†Sandy Falls.....	2,700	2,800	17,879,892
Montreal	Upper Notch.....	8,400	8,100	58,778,000
	Hound Chute.....	3,600	3,970	30,448,400
	Indian Chute.....	3,000	3,010	11,615,760
	Fountain Falls.....	2,000	1,920	13,505,358
Wanapitei	Stinson.....	5,700	4,200	21,813,360
	Coniston.....	4,100	4,080	29,502,140
	McVittie.....	2,200	2,220	15,816,560
Matabitchuan	Matabitchuan.....	8,800	10,120	75,046,240
Sturgeon	Crystal Falls.....	8,200	8,100	51,661,000
South	Nipissing.....	1,600	1,630	11,052,000
	Elliott Chute.....	1,400	1,430	6,058,133
	Bingham Chute.....	900	890	5,066,480
Kagawong	Kagawong.....	.....	450	4,354,200
Total hydro-electric.....		368,400	.....	2,191,755,625
Location	Diesel-electric Generating Stations			
Kagawong	Kagawong (diesel portion).....	300	.....	560
Chapleau	Chapleau.....	600	467	1,193,600
Hornepayne	Hornepayne.....	1,000	654	3,223,700
Total diesel-electric.....		1,900	.....	4,417,860
Total generated—Northeastern Division.....		370,300	.....	2,196,173,485
NORTHWESTERN DIVISION				
River	Hydro-electric Generating Stations			
Nipigon	Pine Portage.....	119,200	120,000	667,412,340
	Cameron Falls.....	76,700	75,000	466,507,000
	Alexander.....	60,900	62,000	347,390,200
English	Caribou Falls.....	79,300	79,000	462,397,000
	Manitou Falls.....	65,700	63,000	378,133,800
	Ear Falls.....	15,900	15,000	123,226,800
Kaministiquia	Silver Falls.....	45,500	48,000	136,655,700
	Kakabeka Falls.....	25,000	23,600	141,049,700
Winnipeg	Whitedog Falls.....	61,700	60,000	311,961,000
Aguasabon	Aguasabon.....	44,000	46,000	253,850,360
Albany	Rat Rapids.....	.....	.....	55,800
Total generated—Northwestern Division.....		593,900	.....	3,288,639,700
Sources of Purchased Power				
NORTHEASTERN DIVISION				
†Abitibi Power & Paper Company, Limited.....	.....	.....	16,000	9,347,670
†Quebec Hydro-Electric Commission.....	.....	.....	40,000	194,654,326
Great Lakes Power Corporation, Limited.....	.....	.....	.....	281,300
Miscellaneous (relatively small suppliers).....	.....	1,200	2,650	10,755,650
Total purchased—Northeastern Division.....		1,200	.....	215,038,946
NORTHWESTERN DIVISION				
Ontario-Minnesota Pulp & Paper Company.....	.....	2,000	1,828	9,188,758
Manitoba Hydro-Electric Board.....	.....	.....	77,400	95,025,450
Total purchased—Northwestern Division.....		2,000	.....	104,214,208
Total generated—All systems.....		5,906,950	.....	31,713,319,870
Total purchased—All systems.....		619,200	.....	5,995,563,058
Total generated and purchased—All systems.....		6,526,150	.....	37,708,882,928

POWER RESOURCES

		December dependable		
		Commission stations		
		Hydro-electric	Thermal-electric†	Total
		kw	kw	kw
Southern Ontario System	1960	3,948,750	994,000	4,942,750
	1959	3,979,700	616,000	4,595,700
Northern Ontario Properties				
Northeastern Division	1960	368,400	1,900	370,300
	1959	342,400	1,800	344,200
Total	1960	4,317,150	995,900	5,313,050
	1959	4,322,100	617,800	4,939,900
Net increase or decrease				
Southern Ontario System		30,950	378,000	347,050
Northeastern Division		26,000	100	26,100
Total		4,950	378,100	373,150
Northern Ontario Properties				
Northwestern Division	1960	593,900	0	593,900
	1959	593,900	0	593,900
Net increase or decrease				
Northwestern Division		0	0	0
<b>Total—All systems</b>	<b>1960</b>	<b>4,911,050</b>	<b>995,900</b>	<b>5,906,950</b>
	<b>1959</b>	<b>4,916,000</b>	<b>617,800</b>	<b>5,533,800</b>

\* The capacities shown are those available for a 20-minute period at the times of system primary peak demand in each of the three operating systems in December, the capacity of sources of purchased power being based on the terms of the purchase contract. Requirements shown are the December coincident peaks for each system and their arithmetic sum.

ANNUAL ENERGY

Energy Made Available by the Commission

	1959		1960		Increase or decrease
	kwh		kwh		per cent
<b>SOUTHERN ONTARIO SYSTEM</b>					
Generated (net)					
hydro-electric	24,206,123,608		26,063,437,785		7.7
thermal-electric	336,678,700		165,068,900		51.0
Total generated	24,542,802,308		26,228,506,685		6.9
Purchased	5,550,093,709		5,676,309,904		2.3
Transferred* in or out (net)	1,518,561,000		1,357,163,000		10.6
Primary		25,226,264,417		26,311,728,089	4.3
Secondary		3,348,070,600		4,225,925,500	26.2
Total	28,574,335,017	28,574,335,017	30,547,653,589	30,547,653,589	6.9
<b>NORTHERN ONTARIO PROPERTIES</b>					
<b>NORTHEASTERN DIVISION</b>					
Generated (net)					
hydro-electric	1,911,774,236		2,191,755,625		14.6
diesel-electric	3,859,560		4,417,860		14.5
Total generated	1,915,633,796		2,196,173,485		14.6
Purchased	181,125,014		215,035,946		18.7
Transferred* in or out (net)	1,518,561,000		1,357,163,000		10.6
Primary		3,559,611,260		3,636,699,913	2.2
Secondary		55,708,550		131,675,518	136.4
Total	3,615,319,810	3,615,319,810	3,768,375,431	3,768,375,431	4.2
<b>NORTHWESTERN DIVISION</b>					
Generated (net)					
hydro-electric	3,141,952,852		3,288,639,700		4.7
Purchased	133,806,605		104,214,208		22.1
Primary		2,760,792,799		2,759,000,194	0.1
Secondary		514,966,658		633,853,714	23.1
Total	3,275,759,457	3,275,759,457	3,392,853,908	3,392,853,908	3.6
<b>ALL SYSTEMS</b>					
Generated (net)					
hydro-electric	29,259,850,696		31,543,833,110		7.8
thermal- and diesel-electric	340,538,260		169,486,760		50.2
Total generated	29,600,388,956		31,713,319,870		7.1
Purchased	5,865,025,328		5,995,563,058		2.2
Primary		31,546,668,476		32,717,428,196	3.7
Secondary		3,918,745,808		4,991,454,732	27.4
<b>Total</b>	<b>35,465,414,284</b>	<b>35,465,414,284</b>	<b>37,708,882,928</b>	<b>37,708,882,928</b>	<b>6.3</b>

\* Net interchange between Southern Ontario System and Northeastern Division of the Northern Ontario Properties.

## AND REQUIREMENTS

capacity*		Primary power requirements*	Reserve	Ratio of reserve to requirements
Sources of purchased power	Total dependable capacity*			
kw	kw	kw	kw	per cent
616,000	5,558,750	4,772,583	.....	.....
618,000	5,213,700	4,578,541	.....	.....
1,200	371,500	551,661	.....	.....
1,200	345,400	550,067	.....	.....
617,200	5,930,250	5,324,244	606,006	11.4
619,200	5,559,100	5,128,608	430,492	8.4
2,000	345,050	194,042	.....	.....
0	26,100	1,594	.....	.....
2,000	371,150	195,636	.....	.....
2,000	595,900	421,438	174,462	41.4
1,700	595,600	427,866	167,734	39.2
300	300	6,428	.....	.....
619,200	6,526,150	5,745,682	**	**
620,900	6,154,700	5,556,474	**	**

\*\* There is no interconnection between the Northwestern Division and the other operating systems of the Commission.

† Includes diesel-electric.

## ACCOUNT

## Energy Disposed of by the Commission in Wholesale Quantities

	1959	1960	Increase or decrease
	kwh	kwh	per cent
<b>SOUTHERN ONTARIO SYSTEM</b>			
Primary—Municipal electrical utilities.....	15,980,829,118	16,828,812,615	5.3
—Local systems.....	4,616,784	4,972,000	7.7
—Interconnected systems, for resale....	411,698,482	421,380,355	2.4
—Rural operating areas.....	2,310,451,148	2,508,393,230	8.6
—Direct industrial customers.....	4,118,441,003	4,218,341,434	2.4
Total primary.....	22,826,036,535	23,981,899,634	5.1
Secondary—Interconnected systems, for resale...	3,183,489,320	4,005,775,000	25.8
—Direct industrial customers.....	4,942,800	.....	.....
Total secondary.....	3,188,432,120	4,005,775,000	25.6
Total primary and secondary.....	26,014,468,655	27,987,674,634	7.6
Losses and unaccounted for.....	2,559,866,362	2,559,978,955	.....
Total.....	28,574,335,017	30,547,653,589	6.9
<b>NORTHERN ONTARIO PROPERTIES</b>			
<b>NORTHEASTERN DIVISION</b>			
Primary—Municipal electrical utilities.....	301,070,237	377,674,126	25.4
—Local systems.....	172,927,485	182,088,374	5.3
—Interconnected systems, for resale....	15,485,020	17,706,000	14.3
—Rural operating areas.....	272,253,723	261,457,029	4.0
—Direct industrial customers.....	2,414,865,353	2,424,728,620	0.4
Total primary.....	3,176,601,818	3,263,654,149	2.7
Secondary—Interconnected systems, for resale...	36,337	.....	.....
—Direct industrial customers.....	55,051,200	129,101,838	134.5
Total secondary.....	55,087,537	129,101,838	134.4
Total primary and secondary.....	3,231,689,355	3,392,755,987	5.0
Losses and unaccounted for.....	383,630,455	375,619,444	2.1
Total.....	3,615,319,810	3,768,375,431	4.2
<b>NORTHWESTERN DIVISION</b>			
Primary—Municipal electrical utilities.....	473,203,775	495,306,036	4.7
—Local systems.....	18,082,895	18,686,852	3.3
—Interconnected systems, for resale....	.....	.....	.....
—Rural operating areas.....	72,200,621	80,860,767	12.0
—Direct industrial customers.....	2,016,322,235	1,999,633,946	0.8
Total primary.....	2,579,809,526	2,594,487,601	0.6
Secondary—Interconnected systems, for resale...	189,147,313	261,272,937	38.1
—Direct industrial customers.....	290,671,340	318,655,629	9.6
Total secondary.....	479,818,653	579,928,566	20.9
Total primary and secondary.....	3,059,628,179	3,174,416,167	3.8
Losses and unaccounted for.....	216,131,278	218,437,741	1.1
Total.....	3,275,759,457	3,392,853,908	3.6
<b>ALL SYSTEMS</b>			
Primary.....	28,582,447,879	29,840,041,384	4.4
Secondary.....	3,723,338,310	4,714,805,404	26.6
Losses and unaccounted for.....	3,159,628,095	3,154,036,140	0.2
<b>Total.....</b>	<b>35,465,414,284</b>	<b>37,708,882,928</b>	<b>6.3</b>



ANALYSIS OF  
by the Commission and Associated

	Sales by utilities listed in Statement A	Sales by The
		Through local systems
	kwh	kwh
Classes of ultimate customers served:		
Residential .....	6,823,369,181	121,289,909
Hamlet and rural residential.....		
Summer.....		
Total sales residential-type service.....	6,823,369,181	121,289,909
Commercial.....	2,870,753,176	50,917,141
Industrial power—primary.....	7,310,504,032	16,178,993
—secondary.....		
Farm.....		
Street lighting.....	253,663,067	2,732,885
Total sales to ultimate customers served.....	17,258,289,456	191,118,928
Delivered to interconnected systems for resale:		
Primary.....		
Secondary.....		
Total sales to ultimate customers and for resale.....	17,258,289,456	191,118,928
Adjustments:		
Losses and unaccounted for—municipal utilities.....	850,234,801	
Generated by utilities listed in Statement A.....	210,053,034	
Purchased by utilities listed in Statement A from sources other than the Commission.....	196,678,446	
Commission sales, wholesale and retail.....	17,701,792,777	191,118,928
Adjustment for losses and unaccounted for—Commission...		14,628,298
*Disposed of by the Commission in wholesale quantities....	17,701,792,777	205,747,226

\* This line gives the sums of the corresponding items shown on the preceding page for each of the three operating systems. The total of 34,554,846,788 kilowatt-hours plus transmission losses and unaccounted for amounting to 3,154,036,140 kilowatt-hours equals the 37,708,882,928 kilowatt-hours shown as generated and purchased.

## ENERGY SALES

## Municipal Electrical Utilities during 1960

Hydro-Electric Power Commission of Ontario			
In rural areas	To direct industrial customers	To interconnected systems for resale	Total
kwh	kwh	kwh	kwh
.....	.....	.....	6,944,659,090
1,070,637,716	.....	.....	1,070,637,716
67,785,615	.....	.....	67,785,615
1,138,423,331	.....	.....	8,083,082,421
301,874,591	.....	.....	3,223,544,908
325,416,458	8,642,704,000	.....	16,294,803,483
.....	447,757,467	.....	447,757,467
850,192,892	.....	.....	850,192,892
11,834,385	.....	.....	268,230,337
2,627,741,657	9,090,461,467	.....	29,167,611,508
.....	.....	439,086,355	439,086,355
.....	.....	4,267,047,937	4,267,047,937
2,627,741,657	9,090,461,467	4,706,134,292	33,873,745,800
.....	.....	.....	850,234,801
.....	.....	.....	210,053,034
.....	.....	.....	196,678,446
2,627,741,657	9,090,461,467	4,706,134,292	34,317,249,121
222,969,369	.....	.....	237,597,667
2,850,711,026	9,090,461,467	4,706,134,292	34,554,846,788





# APPENDIX II—FINANCIAL

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## SOUTHERN ONTARIO

## FIXED

## Statement Showing Changes during

Property	In		
	Balance January 1, 1960	Changes	
		Placed in service	Equipment relocated and reclassified
	\$	\$	\$
<b>Power System</b>			
<b>HYDRO-ELECTRIC GENERATING STATIONS</b>			
Niagara River			
Sir Adam Beck-Niagara No. 1.....	83,896,214	1,677,499	1,578,696
Sir Adam Beck-Niagara No. 2.....	311,084,663	99,353	122,526
Ontario Power.....	21,975,068	9,699	.....
Toronto Power.....	11,546,880	1,262	2,400
Welland Canal			
DeCew Falls.....	27,425,890	16,129	3,794
St. Lawrence River			
St. Lawrence Power Project.....	281,159,873	10,488,255	393,255
Ottawa River			
Des Joachims.....	73,249,077	7,290	.....
Otto Holden.....	58,004,954	165,383	4,381
Chenault.....	29,351,613	9,251	6,424
Chats Falls.....	9,302,914	16,987	598,644
Ogoki Diversion	5,052,955	.....	.....
Madawaska River			
Stewartville.....	12,450,473	1,007	.....
Barrett Chute.....	4,885,015	27	.....
Other properties.....	20,450,542	42,702	10,954
	949,836,131	12,532,776	694,932
<b>THERMAL-ELECTRIC GENERATING STATIONS</b>			
J. Clark Keith.....	46,440,949	8,795	.....
Richard L. Hearn.....	47,974,863	50,864,193	11,900
Lakeview.....	.....	.....	.....
Douglas Point (Nuclear)			
—Ontario Hydro contribution.....	.....	.....	.....
Other properties.....	488,418	149,631	11,900
	94,904,230	51,022,619	.....
Total generating stations.....	1,044,740,361	63,555,395	694,932
<b>TRANSFORMER STATIONS</b>			
230-kv.....	94,614,112	3,700,631	1,297,229
Other—Niagara Division.....	102,517,231	8,397,829	451,539
—Georgian Bay Division.....	7,470,865	1,016,912	194,672
—Eastern Ontario Division.....	24,708,166	2,995,667	149,675
Total transformer stations.....	229,310,374	16,111,039	800,693
<b>TRANSMISSION LINES</b>			
230-kv.....	100,812,857	1,544,398	1,262,943
Other—Niagara Division.....	64,758,195	3,479,855	614,142
—Georgian Bay Division.....	8,446,720	584,151	35,879
—Eastern Ontario Division.....	24,913,634	840,385	264,408
Total transmission lines.....	198,931,406	6,448,789	348,514

## SYSTEM

## ASSETS

Year 1960 and Balances at December 31, 1960

service				
during year				
Sales and retirements	Balance December 31, 1960	Under construction December 31, 1960	Total fixed assets December 31, 1960	Expenditures during 1960
\$	\$	\$	\$	\$
58,652	87,093,757	168,955	87,262,712	1,045,558
24,023	311,282,519	448,889	311,731,408	431,563
18,250	21,966,517	9,560	21,976,077	9,699
2,717	11,547,825	.....	11,547,825	1,262
8,977	27,447,202	4,643	27,451,845	16,661
.....	291,254,873	141,878	291,396,751	7,313,212
970	73,255,397	47,550	73,302,947	37,780
3,334	58,171,384	15,835	58,187,219	3,961
1,000	29,353,440	3,393	29,356,833	6,865
157,440	8,563,817	33,515	8,597,332	28,971
.....	5,052,955	.....	5,052,955	.....
.....	12,449,466	.....	12,449,466	1,007
1,296	4,883,692	2,337	4,886,029	.....
15,339	20,466,951	168,077	20,635,028	93,356
274,044	962,789,795	1,044,632	963,834,427	8,987,881
.....	46,449,744	3,135	46,452,879	5,848
.....	98,850,956	41,113,364	139,964,320	17,713,308
.....	.....	42,858,354	42,858,354	24,353,250
.....	.....	637,161	637,161	637,161
1,002	625,147	340,582	965,729	208,381
1,002	145,925,847	84,952,596	230,878,443	42,501,186
275,046	1,108,715,642	85,997,228	1,194,712,870	51,489,067
6,480,815	90,536,699	2,032,649	92,569,348	3,478,418
3,774,063	107,592,536	2,581,323	110,173,859	8,242,336
336,072	8,346,377	43,442	8,389,819	873,410
588,582	26,965,576	248,113	27,213,689	2,396,970
11,179,532	233,441,188	4,905,527	238,346,715	14,991,134
134,283	103,485,915	6,418,190	109,904,105	5,285,980
695,500	66,928,408	2,793,989	69,722,397	4,215,996
131,832	8,863,160	147,314	9,010,474	419,248
108,703	25,380,908	800,712	26,181,620	735,689
1,070,318	204,658,391	10,160,205	214,818,596	10,656,913



SOUTHERN ONTARIO

FIXED

Statement Showing Changes during

Property	In		
	Balance January 1, 1960	Changes	
		Placed in service	Equipment relocated and reclassified
	\$	\$	\$
<b>Power System—(continued)</b>			
LOCAL SYSTEMS			
Georgian Bay Division . . . . .	425,811	10,905	2,457
COMMUNICATIONS . . . . .	11,530,608	280,529	310,031
Total power system . . . . .	1,484,938,560	86,406,657	69,735
<b>Administrative and Service Buildings and Equipment</b>			
BUILDINGS . . . . .	22,857,189	645,726	75,526
OFFICE AND SERVICE EQUIPMENT . . . . .	7,209,069	519,174	.....
Total administrative and service buildings and equipment . . . . .	30,066,258	1,164,900	75,526
<b>Rural Power District . . . . .</b>	213,214,771	15,044,575	5,791
TOTAL FIXED ASSETS . . . . .	1,728,219,589	102,616,132	.....

Changes in Assets under Construction during 1960

Under construction at January 1, 1960 . . . . .	\$ 112,306,246
Expenditures during 1960 . . . . .	94,534,086
	\$ 206,840,332
Less—Placed in service during 1960 . . . . .	102,616,132
Under construction at December 31, 1960 . . . . .	\$ 104,224,200

## SYSTEM

## ASSETS

## Year 1960 and Balances at December 31, 1960

service				
during year				
Sales and retirements	Balance December 31, 1960	Under construction December 31, 1960	Total fixed assets December 31, 1960	Expenditures during 1960
\$	\$	\$	\$	\$
4,979	429,280	418	429,698	9,224
348,868	11,152,238	326,113	11,478,351	398,256
12,878,743	1,558,396,739	101,389,491	1,659,786,230	77,544,594
52,467 252,235	23,525,974 7,476,008	1,188,387 .....	24,714,361 7,476,008	1,372,752 519,174
304,702	31,001,982	1,188,387	32,190,369	1,891,926
3,493,636	224,759,919	1,646,322	226,406,241	15,097,566
16,677,081	1,814,158,640	104,224,200	1,918,382,840	94,534,086

## Summary of Sales and Retirements during 1960

Charged to operations .....	\$	45,457
Charged to reserve for stabilization of rates and contingencies		
—Leaside Transformer Station .....	\$	850,922
—Miscellaneous .....		55,097
		906,019
Charged to construction in progress .....		1,347,204
Charged to accumulated depreciation .....		12,317,377
Proceeds from sales .....		2,061,024
	\$	16,677,081

SOUTHERN ONTARIO

ACCUMULATED DEPRECIATION

December 31, 1960

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1960 ..	\$ 163,754,000	\$ 46,083,895	\$ 6,904,364	\$ 216,742,259
Add:				
Interest at 3% per annum on accumulated deprecia- tion on plant not fully depreciated.....	3,992,216	1,387,279	69,176	5,448,671
Provision in the year				
—direct.....	13,074,301	6,213,824	.....	19,288,125
—indirect.....	10,188	.....	876,667	886,855
Adjustments re transfer of equipment.....	28,161	11,949	16,212	.....
Other adjustments.....	73,782	1,738	.....	75,520
	180,876,326	53,698,685	7,866,419	242,441,430
Deduct:				
Cost of fixed assets retired less proceeds from sales (Note).....	9,348,113	2,773,788	195,476	12,317,377
Excess or <i>deficiency</i> of re- moval costs over salvage recoveries on assets retired	292,005	44,315	2,284	249,974
	9,640,118	2,729,473	197,760	12,567,351
Balances at December 31, 1960	171,236,208	50,969,212	7,668,659	229,874,079

NOTE: Accumulated depreciation for the Power System includes a special allowance for estimated capital losses on 25-cycle equipment to be retired as a result of frequency standardization. A summary of the charges against this special allowance in 1960 is noted below:

Balance at January 1, 1960.....	\$ 8,000,000
Deduct charges in 1960:	
Losses incurred on the retirement of 25-cycle equipment (included above in "Cost of fixed assets retired less pro- ceeds from sales").....	\$ 1,910,558
Other expenditures and removal costs.....	90,727
	<u>2,001,285</u>
Balance at December 31, 1960.....	<u>\$ 5,998,715</u>



## SYSTEM

## FREQUENCY STANDARDIZATION ACCOUNT

December 31, 1960

Balance at debit at January 1, 1960 .....	\$199,353,727
Less portion of cost charged to cost of power for the year .....	10,805,643
Balance at debit at December 31, 1960 .....	\$188,548,084

## EXCHANGE DISCOUNT (NET) ON FUNDED DEBT

December 31, 1960

	Discount	Premium	Net discount
	\$	\$	\$
Exchange discount and premium on funded debt issued in United States funds:			
Balances at January 1, 1960 .....	5,496,338	4,746,301	750,037
Less discount and premium at time of issue on bonds redeemed during 1960 .....	91,769	11,735	80,034
Balances at December 31, 1960 .....	5,404,569	4,734,566	670,003

## SOUTHERN ONTARIO

## STATEMENTS OF RESERVES,

## Stabilization of Rates

	Power System	Rural Power District
	\$	\$
Balances at January 1, 1960 . . . . .	114,062,085	2,709,752
Add:		
Interest for year on reserve balances . . . . .	4,678,759	100,929
Provision in the year . . . . .	4,054,410	.....
Excess of revenue over costs of supplying power to Rural Power District customers . . . . .	.....	944,626
Profit on redemption of funded debt and sale of invest- ments, net . . . . .	648,127	.....
	123,443,381	3,755,307
Deduct:		
Expenditures during year . . . . .	.....	.....
Withdrawal in the year applied in reduction of cost of power . . . . .	.....	.....
Cost of repairs to facilities damaged by ice storm . . . . .	269,420	1,244,099
Loss on equipment retired prematurely to permit an increase in the capacity of Leaside Transformer Station . . . . .	850,922	.....
Miscellaneous charges . . . . .	115,900	.....
	1,236,242	1,244,099
Balances at December 31, 1960 . . . . .	122,207,139	2,511,208

## SYSTEM

DECEMBER 31, 1960

## and Contingencies

Sub-total	Portion of reserve earmarked for special purposes			Total
	Maximum power cost	Municipal direct customers	Nuclear research	
\$	\$	\$	\$	\$
116,771,837	461,032	.....	3,295,948	120,528,817
4,779,688	18,441	.....	111,083	4,909,212
4,054,410	.....	394,519	407,520	4,856,449
944,626	.....	.....	.....	944,626
648,127	.....	.....	.....	648,127
127,198,688	479,473	394,519	3,814,551	131,887,231
.....	.....	.....	2,040,646	2,040,646
.....	18,441	.....	.....	18,441
1,513,519	.....	.....	.....	1,513,519
850,922	.....	.....	.....	850,922
115,900	.....	.....	.....	115,900
2,480,341	18,441	.....	2,040,646	4,539,428
124,718,347	461,032	394,519	1,773,905	127,347,803

## Sinking Fund

	Power System and Rural Power District	Administrative and service buildings and equipment	Total
	\$	\$	\$
Balances at January 1, 1960.....	279,872,268	3,610,148	283,482,416
Add:			
Interest at 4% per annum on reserve balances	11,194,891	144,406	11,339,297
Provision in the year—direct.....	17,548,125	.....	17,548,125
—indirect.....	4,862	243,209	248,071
	308,620,146	3,997,763	312,617,909
Deduct credits resulting from matured sinking funds (see note):			
Interest.....	665,902	41,435	707,337
Principal.....	175,299	10,907	186,206
	841,201	52,342	893,543
Balances at December 31, 1960.....	307,778,945	3,945,421	311,724,366

NOTE: The matured sinking funds at January 1, 1960 amounted to \$17,683,445.



## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Acton.....	3,598.1	17,448.8	136,812	17,990	3,598
Ailsa Craig.....	301.8	1,241.6	11,962	1,509	302
Ajax.....	5,351.2	28,048.4	187,649	.....	5,351
Alexandria.....	1,773.4	8,328.9	70,987	.....	1,773
Alfred.....	402.9	1,754.7	14,800	.....	403
Alliston.....	1,720.6	9,854.9	73,744	.....	1,721
Almonte.....	1,357.4	6,429.7	50,564	.....	1,357
Alvinston.....	228.5	913.2	9,138	1,143	228
Amherstburg.....	3,031.6	17,089.5	117,758	15,158	3,032
Ancaster Twp.....	2,027.4	9,827.8	72,598	10,137	2,027
Apple Hill.....	87.7	378.4	3,423	.....	88
Arkona.....	309.3	1,318.4	12,240	1,546	309
Arnprior.....	3,964.1	18,998.7	147,243	.....	3,964
Arthur.....	695.2	3,007.3	27,685	.....	695
Athens.....	381.0	1,868.4	14,799	.....	381
Aurora.....	4,506.0	24,541.5	164,021	22,530	4,506
Avonmore.....	147.5	596.0	5,450	.....	148
Aylmer.....	3,716.0	19,147.2	131,346	18,580	3,716
Ayr.....	629.5	2,701.2	24,919	3,148	630
Baden.....	819.1	3,005.5	27,990	4,095	819
Bancroft.....	1,176.9	5,297.6	46,850	.....	1,177
Barrie.....	15,852.3	88,072.8	546,443	.....	15,852
Barry's Bay.....	332.9	1,564.6	13,735	.....	333
Bath.....	286.9	1,419.2	11,543	.....	287
Beachville.....	2,182.8	14,133.4	82,618	10,914	2,183
Beamsville.....	1,328.4	6,719.1	48,940	6,642	1,328
Beaverton.....	1,079.5	5,302.1	44,108	.....	1,080
Beeton.....	424.3	1,956.0	18,895	.....	424
Belle River.....	607.5	2,934.2	24,504	3,038	607
Belleville.....	20,652.0	113,562.8	699,905	.....	20,652
Blenheim.....	1,298.7	6,342.9	50,151	6,493	1,299
Bloomfield.....	390.0	1,622.4	14,119	.....	390
Blyth.....	585.3	2,785.2	23,632	2,927	585
Bobcaygeon.....	674.3	3,240.0	26,981	.....	674
Bolton.....	1,004.5	5,007.9	40,174	5,022	1,005
Bothwell.....	335.7	1,530.4	13,577	1,679	336

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
327	1,357	157,370	158,459.36	1,089.36	44.04	43.74
25	220	13,578	14,005.44	427.44	46.40	44.99
505	.....	193,505	193,981.00	476.00	36.25	36.16
159	.....	72,919	72,886.06	32.94	41.10	41.12
35	.....	15,238	15,612.07	374.07	38.75	37.82
170	194	75,441	78,288.83	2,847.83	45.50	43.85
123	.....	52,044	50,900.94	1,143.06	37.50	38.34
19	.....	10,528	10,668.62	140.62	46.70	46.07
296	1,519	134,725	139,455.14	4,730.14	46.00	44.44
184	.....	84,946	86,973.33	2,027.33	42.90	41.90
7	.....	3,518	3,446.94	71.06	39.30	40.11
26	.....	14,121	14,615.22	494.22	47.25	45.65
359	.....	151,566	149,841.11	1,724.89	37.80	38.23
61	.....	28,441	29,544.58	1,103.58	42.50	40.91
35	.....	15,215	15,050.47	164.53	39.50	39.93
433	.....	191,490	198,713.88	7,223.88	44.10	42.50
12	.....	5,610	5,456.27	153.73	37.00	38.03
348	281	153,709	159,786.57	6,077.57	43.00	41.36
54	758	27,993	28,263.42	270.42	44.90	44.47
66	1,399	31,571	32,681.11	1,110.11	39.90	38.54
104	.....	48,131	50,019.68	1,888.68	42.50	40.90
1,539	7,197	556,637	570,682.80	14,045.80	36.00	35.11
30	.....	14,098	15,147.71	1,049.71	45.50	42.35
26	.....	11,856	11,333.55	522.45	39.50	41.32
229	1,842	94,102	98,009.60	3,907.60	44.90	43.11
123	.....	57,033	60,109.73	3,076.73	45.25	42.93
99	3,766	41,521	44,257.44	2,736.44	41.00	38.46
38	129	19,228	19,601.91	373.91	46.20	45.32
55	.....	28,204	28,429.05	225.05	46.80	46.43
1,994	.....	722,551	722,819.43	268.43	35.00	34.99
119	223	57,839	58,962.11	1,123.11	45.40	44.54
33	.....	14,542	14,546.38	4.38	37.30	37.29
53	.....	27,197	27,655.05	458.05	47.25	46.47
61	.....	27,716	27,038.45	677.55	40.10	41.10
93	188	46,106	47,011.38	905.38	46.80	45.90
30	221	15,401	16,114.00	713.00	48.00	45.88

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardization (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt-hours	\$	\$	\$
Bowmanville.....	5,704.6	28,235.9	197,847	.....	5,705
Bracebridge.....	33.2	.....	2,224	.....	33
Bradford.....	1,591.2	8,503.2	63,040	.....	1,591
Braeside.....	1,585.6	5,847.4	50,575	.....	1,586
Brampton.....	10,499.3	53,514.9	352,516	52,496	10,499
Brantford.....	42,368.3	217,641.3	1,398,220	211,842	42,368
Brantford Twp.....	5,000.8	25,503.3	179,523	25,004	5,001
Brechin.....	125.6	568.4	5,160	.....	126
Bridgeport.....	778.5	3,496.4	27,999	3,892	779
Brigden.....	225.1	945.2	8,956	1,126	225
Brighton.....	1,286.9	7,031.7	48,674	.....	1,287
Brockville.....	14,848.7	74,792.7	485,198	.....	14,849
Brussels.....	598.0	2,632.0	23,747	2,990	598
Burford.....	734.9	3,223.8	26,678	3,674	735
Burgessville.....	194.0	648.8	6,799	970	194
Burk's Falls.....	521.9	2,515.2	21,238	.....	522
Burlington.....	27,352.2	144,347.9	971,998	136,761	27,352
Caledonia.....	913.6	4,689.6	33,905	4,568	914
Campbellford.....	924.0	1,324.5	24,291	.....	924
Campbellville.....	146.1	658.8	5,612	731	146
Cannington.....	589.7	2,804.8	25,026	.....	590
Cardinal.....	833.3	4,325.7	32,814	.....	833
Carleton Place.....	2,857.2	15,373.8	117,260	.....	2,857
Casselman.....	628.7	2,617.6	24,659	.....	629
Cayuga.....	388.1	1,812.4	15,314	1,940	388
Chalk River.....	414.0	2,228.4	15,524	.....	414
Chatham.....	19,141.8	94,216.4	623,059	95,709	19,142
Chatsworth.....	243.6	1,102.0	10,315	.....	244
Chesley.....	1,119.4	4,679.2	42,750	.....	1,119
Chesterville.....	1,311.4	6,003.5	51,739	.....	1,311
Chippawa.....	1,116.6	5,902.0	42,344	5,583	1,116
Clifford.....	333.7	1,685.6	13,664	1,669	334
Clinton.....	2,078.0	10,176.4	76,254	10,390	2,078
Cobden.....	568.8	2,570.4	19,797	.....	569
Cobourg.....	8,795.0	44,607.5	298,272	.....	8,795
Colborne.....	790.9	4,117.4	33,728	.....	791



## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance <i>credited</i> or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
524	.....	204,076	202,511.52	1,564.48	35.50	35.77
2	.....	2,259	1,095.05	1,163.95	33.00	68.04
151	60	64,722	65,876.40	1,154.40	41.40	40.67
129	.....	52,290	53,512.60	1,222.60	33.75	32.98
978	4,754	411,735	410,521.66	1,213.34	39.10	39.22
3,961	17,227	1,639,164	1,669,310.71	30,146.71	39.40	38.69
466	.....	209,994	217,034.37	7,040.37	43.40	41.99
11	1,769	3,528	3,892.33	364.33	31.00	28.09
69	.....	32,739	33,630.12	891.12	43.20	42.05
19	148	10,178	10,378.65	200.65	46.10	45.22
124	.....	50,085	49,546.29	538.71	38.50	38.92
1,376	3,322	498,101	503,369.84	5,268.84	33.90	33.55
52	.....	27,387	28,255.91	868.91	47.25	45.80
63	66	31,084	31,675.99	591.99	43.10	42.30
16	41	7,938	8,167.75	229.75	42.10	40.92
47	.....	21,807	24,214.25	2,407.25	46.40	41.78
2,590	.....	1,138,701	1,155,630.82	16,929.82	42.25	41.63
86	420	39,053	39,467.88	414.88	43.20	42.75
57	.....	25,272	33,263.10	7,991.10	36.00	27.35
13	5	6,497	6,646.79	149.79	45.50	44.47
53	3,187	22,482	24,356.34	1,874.34	41.30	38.12
79	.....	33,726	34,581.97	855.97	41.50	40.47
273	.....	120,390	118,859.86	1,530.14	41.60	42.14
53	.....	25,341	26,090.36	749.36	41.50	40.31
34	.....	17,676	17,929.46	253.46	46.20	45.54
40	.....	15,978	16,561.02	583.02	40.00	38.59
1,755	3,467	736,198	748,443.73	12,245.73	39.10	38.46
21	.....	10,580	10,718.77	138.77	44.00	43.43
96	.....	43,965	44,774.67	809.67	40.00	39.28
116	3,585	49,581	50,487.63	906.63	38.50	37.81
106	77	49,072	49,351.51	279.51	44.20	43.95
31	.....	15,698	15,750.26	52.26	47.20	47.04
190	2,369	86,543	89,560.37	3,017.37	43.10	41.65
50	.....	20,416	20,247.81	168.19	35.60	35.89
817	.....	307,884	325,414.39	17,530.39	37.00	35.01
74	.....	34,593	33,691.64	901.36	42.60	43.74

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Coldwater.....	531.4	2,580.1	20,601	.....	531
Collingwood.....	5,883.2	28,156.9	227,123	.....	5,883
Comber.....	274.1	1,071.2	10,745	1,370	274
Cookstown.....	304.4	1,381.0	13,200	.....	304
Cottam.....	235.9	1,023.8	8,785	1,180	236
Courtright.....	155.1	701.4	6,035	775	155
Creemore.....	454.7	2,094.4	18,299	.....	455
Dashwood.....	282.2	1,000.4	10,902	1,411	282
Deep River.....	3,086.1	16,416.0	109,244	.....	3,086
Delaware.....	221.7	988.8	8,613	1,109	222
Delhi.....	2,239.9	11,083.1	81,945	11,199	2,240
Deseronto.....	890.0	4,680.7	37,553	.....	890
Dorchester.....	346.1	1,584.0	13,194	1,731	346
Drayton.....	352.7	1,431.6	13,293	1,763	353
Dresden.....	1,438.0	6,413.6	55,981	7,190	1,438
Drumbo.....	225.1	939.2	9,061	1,126	225
Dublin.....	218.0	914.0	7,950	1,090	218
Dundalk.....	534.2	2,216.4	22,748	.....	534
Dundas.....	7,809.7	39,508.2	257,542	39,048	7,810
Dunnville.....	3,186.8	16,029.2	121,281	15,934	3,187
Durham.....	1,521.2	6,379.8	59,083	.....	1,521
Dutton.....	366.2	1,596.0	16,120	1,831	366
East York Twp.....	32,692.8	182,907.1	1,110,080	163,464	32,693
Eganville.....	543.8	2,536.0	20,493	.....	544
Elmira.....	3,613.3	16,813.3	132,797	18,067	3,613
Elmvale.....	551.0	2,664.0	22,199	.....	551
Elmwood.....	162.8	576.6	6,593	.....	163
Elora.....	774.7	3,480.2	31,635	3,873	775
Embro.....	360.4	1,612.0	13,797	1,802	360
Erieau.....	361.1	1,798.4	14,417	1,806	361
Erie Beach.....	58.3	199.4	2,208	291	58
Erin.....	535.3	2,491.8	21,544	.....	535
Essex.....	1,406.9	7,258.4	51,988	7,035	1,407
Etobicoke Twp.....	104,611.8	605,122.2	3,620,765	523,059	104,612
Exeter.....	2,029.9	9,446.4	81,247	10,149	2,030
Fergus.....	3,429.2	14,481.7	123,436	17,146	3,429

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
48	824	20,356	21,361.31	1,005.31	40.20	38.31
532	16,565	216,973	229,442.87	12,469.87	39.00	36.88
23	154	12,258	12,815.35	557.35	46.75	44.72
27	90	13,441	14,003.94	562.94	46.00	44.16
21	.....	10,222	10,287.04	65.04	43.60	43.33
14	.....	6,979	7,071.42	92.42	45.60	45.00
41	1,118	17,677	18,642.02	965.02	41.00	38.88
23	85	12,533	13,332.37	799.37	47.25	44.41
294	.....	112,624	112,643.57	19.57	36.50	36.49
19	18	9,945	10,063.69	118.69	45.40	44.86
205	.....	95,589	98,330.51	2,741.51	43.90	42.68
84	.....	38,527	37,380.35	1,146.65	42.00	43.29
30	260	15,041	15,400.71	359.71	44.50	43.46
29	84	15,354	15,729.32	375.32	44.60	43.53
126	384	64,351	66,866.26	2,515.26	46.50	44.75
19	158	10,273	10,636.38	363.38	47.25	45.64
19	45	9,232	9,440.86	208.86	43.30	42.35
46	.....	23,328	24,038.27	710.27	45.00	43.67
725	4,024	301,101	304,576.71	3,475.71	39.00	38.55
295	430	140,267	143,405.64	3,138.64	45.00	44.01
130	.....	60,734	62,368.17	1,634.17	41.00	39.93
32	180	18,169	18,675.80	506.80	51.00	49.61
3,184	.....	1,309,421	1,304,441.06	4,979.94	39.90	40.05
49	.....	21,086	21,100.09	14.09	38.80	38.78
323	2,013	152,787	156,457.35	3,670.35	43.30	42.28
50	1,538	21,262	22,317.18	1,055.18	40.50	38.59
13	.....	6,769	6,738.90	30.10	41.40	41.58
69	2,124	34,228	35,443.67	1,215.67	45.75	44.18
32	892	15,099	15,765.32	666.32	43.75	41.90
33	.....	16,617	17,243.32	626.32	47.75	46.02
5	.....	2,562	2,608.19	46.19	44.75	43.95
48	.....	22,127	22,591.41	464.41	42.20	41.34
132	876	59,686	62,958.03	3,272.03	44.75	42.42
10,355	519	4,258,272	4,393,695.60	135,423.60	42.00	40.71
181	279	93,328	96,421.05	3,093.05	47.50	45.98
294	1,732	142,573	146,770.48	4,197.48	42.80	41.58



## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Finch.....	263.8	1,043.2	10,058	.....	264
Flesherton.....	373.4	1,438.0	13,353	.....	373
Fonthill.....	1,079.1	5,536.0	39,851	5,396	1,079
Forest.....	1,201.7	7,095.8	51,308	6,008	1,202
Forest Hill.....	12,645.0	69,951.1	425,576	63,225	12,645
Frankford.....	645.8	3,252.0	23,638	.....	646
Galt.....	23,405.3	114,659.6	758,424	117,027	23,405
Georgetown.....	6,996.3	38,282.9	251,569	34,981	6,996
Glencoe.....	541.4	2,516.0	21,976	2,707	541
Goderich.....	5,451.3	26,907.6	203,812	27,257	5,451
Grand Bend.....	737.6	3,315.2	29,250	3,688	737
Grand Valley.....	424.3	1,765.5	17,529	.....	424
Granton.....	104.8	441.8	4,050	524	105
Gravenhurst.....	2,393.7	12,052.2	90,709	.....	2,394
Grimsby.....	2,469.7	13,154.0	94,373	12,348	2,470
Guelph.....	33,507.5	172,175.2	1,087,493	167,538	33,507
Hagersville.....	1,600.3	6,698.4	60,064	8,001	1,600
Hamilton.....	311,609.6	1,945,085.9	10,832,692	1,308,867	311,610
Hanover.....	3,782.7	15,771.7	129,703	.....	3,783
Harriston.....	1,201.5	5,951.8	46,308	6,008	1,201
Harrow.....	1,276.6	6,118.6	50,797	6,383	1,277
Hastings.....	433.5	1,977.2	16,312	.....	434
Havelock.....	501.0	2,510.8	19,715	.....	501
Hawkesbury.....	2,852.1	15,236.8	95,594	.....	2,852
Hensall.....	717.4	3,172.8	28,164	3,587	717
Hespeler.....	5,181.0	25,108.0	175,025	25,905	5,181
Highgate.....	190.6	649.1	7,279	953	191
Holstein.....	111.5	394.0	4,339	.....	112
Huntsville.....	2,420.5	13,270.9	95,677	.....	2,421
Ingersoll.....	5,127.6	25,230.3	186,875	25,638	5,128
Iroquois.....	703.3	3,500.8	26,179	.....	703
Jarvis.....	333.9	1,563.2	13,262	1,669	334
Kemptville.....	1,488.8	7,125.5	60,005	.....	1,489
Kincardine.....	2,052.9	10,845.0	86,148	.....	2,053
Kingston.....	36,406.0	206,323.9	1,231,239	.....	36,406
Kingsville.....	1,653.9	8,089.0	59,775	8,270	1,654

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
22	.....	10,344	10,484.73	140.73	39.75	39.21
31	.....	13,757	14,448.66	691.66	38.70	36.84
101	.....	46,427	46,671.43	244.43	43.25	43.02
120	200	58,438	61,284.58	2,846.58	51.00	48.63
1,225	.....	502,671	510,858.00	8,187.00	40.40	39.75
60	.....	24,344	23,508.03	835.97	36.40	37.70
2,140	13,623	887,373	884,718.77	2,654.23	37.80	37.91
674	4,622	289,598	295,243.53	5,645.53	42.20	41.39
48	19	25,253	25,826.39	573.39	47.70	46.64
501	7,312	229,709	245,310.02	15,601.02	45.00	42.14
65	7	33,733	36,142.81	2,409.81	49.00	45.73
36	.....	17,989	18,882.84	893.84	44.50	42.40
9	74	4,614	4,652.01	38.01	44.40	44.03
221	.....	93,324	94,792.17	1,468.17	39.60	38.99
235	.....	109,426	114,224.03	4,798.03	46.25	44.31
3,133	14,668	1,277,003	1,273,285.64	3,717.36	38.00	38.11
137	2,123	67,679	68,012.05	333.05	42.50	42.29
32,057	59,888	12,425,338	12,526,707.63	101,369.63	40.20	39.87
322	.....	133,808	138,068.25	4,260.25	36.50	35.37
111	423	53,205	53,829.05	624.05	44.80	44.28
116	293	58,280	59,361.92	1,081.92	46.50	45.65
39	.....	16,785	17,339.34	554.34	40.00	38.72
46	.....	20,262	21,040.25	778.25	42.00	40.44
271	.....	98,717	98,968.14	251.14	34.70	34.61
63	101	32,430	33,429.29	999.29	46.60	45.20
471	2,227	204,355	206,720.91	2,365.91	39.90	39.44
15	84	8,354	8,842.68	488.68	46.40	43.83
9	.....	4,460	4,740.15	280.15	42.50	40.00
234	.....	98,332	102,630.94	4,298.94	42.40	40.62
469	5,943	212,167	216,898.19	4,731.19	42.30	41.38
65	.....	26,947	29,892.01	2,945.01	42.50	38.32
30	.....	15,295	15,727.11	432.11	47.10	45.81
135	.....	61,629	60,742.70	886.30	40.80	41.40
194	.....	88,395	95,871.59	7,476.59	46.70	43.06
3,567	.....	1,271,212	1,270,570.00	642.00	34.90	34.92
151	947	68,903	70,124.65	1,221.65	42.40	41.66

SOUTHERN ONTARIO

STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Kirkfield.....	76.6	348.2	3,188	.....	77
Kitchener.....	64,253.1	339,401.3	1,936,479	321,265	64,253
Lakefield.....	1,194.2	6,047.8	42,707	.....	1,194
Lambeth.....	823.0	3,708.0	31,053	4,115	823
Lanark.....	296.2	1,381.0	11,494	.....	296
Lancaster.....	259.9	1,196.9	10,181	.....	260
Leamington.....	5,614.9	29,655.2	212,634	28,075	5,615
Lindsay.....	7,996.2	44,924.5	310,390	.....	7,996
Listowel.....	2,961.1	13,718.4	106,375	14,805	2,961
London.....	65,252.8	384,303.7	2,239,112	326,264	65,253
London Twp.....	1,561.4	6,989.7	54,994	7,807	1,561
Long Branch.....	6,322.1	33,202.9	220,600	31,611	6,322
L'Orignal.....	337.5	1,622.6	13,147	.....	338
Lucan.....	540.1	2,438.4	21,834	2,700	540
Lucknow.....	696.9	3,173.6	28,616	.....	697
Lynden.....	276.4	1,253.6	10,593	1,382	276
Madoc.....	804.0	4,020.0	32,863	.....	804
Magnetawan.....	78.3	342.8	3,249	.....	78
Markdale.....	643.2	2,996.0	26,461	.....	643
Markham.....	2,589.2	12,623.5	98,683	12,946	2,589
Marmora.....	668.8	3,335.3	27,773	.....	669
Martintown.....	152.6	578.4	5,551	.....	153
Maxville.....	420.4	1,731.5	17,886	.....	420
Meaford.....	2,559.0	13,137.5	106,728	.....	2,559
Merlin.....	271.5	1,238.4	10,568	1,358	272
Merrickville.....	413.3	2,072.1	15,875	.....	413
Merritton.....	17,903.9	110,515.2	631,410	89,519	17,904
Midland.....	7,476.2	37,490.2	267,404	.....	7,476
Mildmay.....	533.0	2,152.6	20,080	.....	533
Millbrook.....	420.1	2,004.7	17,651	.....	420
Milton.....	3,748.2	19,481.8	141,555	18,741	3,748
Milverton.....	846.5	3,371.2	33,243	4,233	847
Mimico.....	7,974.8	44,583.5	275,041	39,874	7,975
Mitchell.....	1,819.0	8,815.3	66,628	9,095	1,819
Moorefield.....	205.9	880.0	7,681	1,029	206
Morrisburg.....	1,214.4	6,296.0	45,242	.....	1,214



## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
7	89	3,183	3,386.09	203.09	44.20	41.55
6,086	28,447	2,299,636	2,338,811.33	39,175.33	36.40	35.79
111	.....	44,012	43,827.15	184.85	36.70	36.85
73	37	36,027	36,703.95	676.95	44.60	43.78
27	.....	11,817	11,994.77	177.77	40.50	39.90
23	.....	10,464	10,523.94	59.94	40.50	40.26
532	1,116	245,740	251,546.04	5,806.04	44.80	43.77
780	.....	319,166	316,648.86	2,517.14	39.60	39.91
265	799	123,607	126,735.15	3,128.15	42.80	41.74
6,517	62,479	2,574,667	2,629,688.51	55,021.51	40.30	39.46
139	.....	64,501	65,576.70	1,075.70	42.00	41.31
597	.....	259,130	265,526.10	6,396.10	42.00	40.99
31	.....	13,516	13,599.57	83.57	40.30	40.05
48	330	24,792	25,384.32	592.32	47.00	45.90
62	.....	29,375	31,707.45	2,332.45	45.50	42.15
24	169	12,106	12,232.53	126.53	44.25	43.80
74	.....	33,741	33,567.00	174.00	41.75	41.97
7	.....	3,334	3,587.67	253.67	45.80	42.58
57	.....	27,161	27,723.00	562.00	43.10	42.23
236	37	114,417	117,550.46	3,133.46	45.40	44.19
61	.....	28,503	30,765.94	2,262.94	46.00	42.62
13	.....	5,717	5,607.45	109.55	36.75	37.46
36	.....	18,342	17,970.68	371.32	42.75	43.63
239	.....	109,526	113,105.98	3,579.98	44.20	42.80
24	.....	12,222	12,487.84	265.84	46.00	45.02
39	.....	16,327	16,368.00	41.00	39.60	39.50
1,831	.....	740,664	732,269.18	8,394.82	40.90	41.37
692	11,063	264,509	269,144.70	4,635.70	36.00	35.38
45	.....	20,658	21,319.67	661.67	40.00	38.76
38	.....	18,109	18,066.09	42.91	43.00	43.11
353	4,795	159,602	163,421.50	3,819.50	43.60	42.58
71	515	37,879	38,260.68	381.68	45.20	44.75
776	1,522	322,144	325,768.90	3,624.90	40.85	40.40
166	1,685	76,023	79,307.32	3,284.32	43.60	41.79
17	48	8,885	8,957.42	72.42	43.50	43.15
115	.....	46,571	49,788.36	3,217.36	41.00	38.35

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Mount Brydges.....	336.6	1,488.8	12,758	1,683	337
Mount Forest.....	1,834.9	8,308.8	71,477	.....	1,835
Napanee.....	3,269.8	15,980.2	126,848	.....	3,270
Neustadt.....	271.8	1,045.6	9,844	.....	272
Newboro.....	92.9	395.2	3,424	.....	93
Newburgh.....	241.7	1,114.8	9,732	.....	242
Newbury.....	103.9	467.8	4,204	520	104
Newcastle.....	826.1	3,833.5	29,430	.....	826
New Hamburg.....	1,279.3	5,930.4	49,417	6,396	1,279
Newmarket.....	6,086.1	30,650.4	212,119	30,431	6,086
New Toronto.....	27,375.2	151,450.6	948,896	136,876	27,375
Niagara.....	1,585.8	8,752.4	59,798	7,929	1,586
Niagara Falls.....	15,869.7	86,221.3	539,177	79,348	15,870
North York Twp.....	149,524.5	839,919.7	5,141,295	747,623	149,525
Norwich.....	850.1	4,305.6	34,771	4,250	850
Norwood.....	545.5	2,585.2	23,159	.....	546
Oakville.....	4,505.8	24,251.2	154,933	22,529	4,506
Oakville-Trafalgar.....	13,779.2	80,221.8	493,737	68,896	13,779
Oil Springs.....	243.5	1,363.2	10,302	1,218	244
Omeme.....	388.4	1,816.9	15,977	.....	388
Orangeville.....	2,947.3	14,542.5	120,540	.....	2,947
Orillia.....	5,224.4	17,708.4	190,334	.....	5,224
Orono.....	460.7	2,145.9	17,552	.....	461
Oshawa.....	62,910.4	338,901.8	2,078,462	.....	62,910
Ottawa.....	149,454.9	805,364.0	4,960,044	.....	149,455
Otterville.....	370.8	1,689.6	13,699	1,854	371
Owen Sound.....	11,678.1	58,350.7	408,248	.....	11,678
Paisley.....	427.3	1,961.8	16,235	.....	427
Palmerston.....	1,068.5	5,280.5	34,962	5,342	1,069
Paris.....	3,472.4	16,394.8	115,544	17,362	3,472
Parkhill.....	769.6	3,546.4	31,000	3,848	770
Parry Sound.....	1,808.9	10,552.6	73,832	.....	1,809
Penetanguishene.....	2,544.1	13,734.2	96,180	.....	2,544
Perth.....	3,739.4	18,528.6	142,896	.....	3,739
Peterborough.....	35,340.8	207,969.3	1,237,810	.....	35,341
Petrolia.....	1,401.3	7,355.9	58,508	7,007	1,401
Petrolia Waterworks.....	137.3	660.7	5,228	686	137

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
30	44	14,764	15,012.75	248.75	44.60	43.86
162	.....	73,474	75,047.06	1,573.06	40.90	40.04
299	.....	130,417	134,877.87	4,460.87	41.25	39.89
23	.....	10,139	10,519.99	380.99	38.70	37.30
8	.....	3,525	3,464.23	60.77	37.30	37.94
21	.....	9,995	9,788.86	206.14	40.50	41.35
9	.....	4,837	5,092.74	255.74	49.00	46.55
74	.....	30,330	30,235.29	94.71	36.60	36.71
114	1,840	55,366	56,032.62	666.62	43.80	43.28
563	4	249,195	252,571.76	3,376.76	41.50	40.94
2,651	20,994	1,094,804	1,111,431.07	16,627.07	40.60	39.99
153	300	69,166	70,249.84	1,083.84	44.30	43.62
1,524	5,608	630,311	634,789.34	4,478.34	40.00	39.72
14,588	3	6,053,028	6,152,932.15	99,904.15	41.15	40.48
79	1,828	38,122	38,083.73	38.27	44.80	44.84
49	.....	23,754	24,683.13	929.13	45.25	43.55
431	.....	182,399	184,286.20	1,887.20	40.90	40.48
1,369	.....	577,781	586,995.00	9,214.00	42.60	41.93
24	205	11,583	12,416.40	833.40	51.00	47.57
34	.....	16,399	16,313.85	85.15	42.00	42.22
271	.....	123,758	131,893.55	8,135.55	44.75	41.99
410	.....	195,968	207,930.82	11,962.82	39.80	37.51
41	.....	18,054	17,599.39	454.61	38.20	39.19
6,015	.....	2,147,387	2,176,699.00	29,312.00	34.60	34.13
14,292	46	5,123,745	5,111,358.45	12,386.55	34.20	34.28
32	63	15,893	16,239.22	346.22	43.80	42.86
1,077	.....	421,003	432,087.85	11,084.85	37.00	36.05
38	.....	16,700	17,132.75	432.75	40.10	39.08
98	234	41,237	42,740.66	1,503.66	40.00	38.59
312	3,284	133,406	135,769.86	2,363.86	39.10	38.42
68	40	35,646	36,400.51	754.51	47.30	46.32
180	.....	75,821	80,674.70	4,853.70	44.60	41.92
244	8,366	90,602	91,586.10	984.10	36.00	35.61
343	.....	146,978	142,846.69	4,131.31	38.20	39.31
3,528	.....	1,276,679	1,272,270.30	4,408.70	36.00	36.12
133	841	66,208	67,262.00	1,054.00	48.00	47.25
13	.....	6,064	6,589.20	525.20	48.00	44.17



## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Pickering.....	736.7	3,888.4	27,795	.....	737
Picton.....	3,410.3	18,055.7	130,377	.....	3,410
Plattsville.....	633.1	2,801.6	23,587	3,166	633
Point Edward.....	4,025.4	15,843.2	129,425	20,127	4,025
Port Burwell.....	217.4	980.6	8,647	1,087	217
Port Colborne.....	5,543.2	29,741.2	200,273	27,716	5,543
Port Credit.....	9,411.8	68,621.4	366,841	47,059	9,412
Port Dalhousie.....	1,385.9	8,402.4	54,088	6,929	1,386
Port Dover.....	1,843.0	10,024.8	68,161	9,215	1,843
Port Elgin.....	1,110.7	5,635.4	47,354	.....	1,111
Port Hope.....	7,435.0	38,452.6	248,022	.....	7,435
Port McNicoll.....	1,157.6	3,482.0	39,399	.....	1,158
Port Perry.....	1,215.0	5,827.2	49,840	.....	1,215
Port Rowan.....	234.1	1,142.0	9,284	1,171	234
Port Stanley.....	983.8	5,225.6	40,951	4,919	984
Prescott.....	3,172.6	15,920.7	122,278	.....	3,173
Preston.....	8,744.0	42,752.5	293,556	43,720	8,744
Priceville.....	45.5	192.4	1,812	.....	45
Princeton.....	244.5	1,068.4	9,479	1,222	245
Queenston.....	315.7	1,742.3	11,666	1,579	316
Renfrew.....	3,755.9	17,255.0	138,686	.....	3,756
Richmond.....	529.3	2,560.4	18,508	.....	529
Richmond Hill.....	8,498.9	42,736.8	321,661	42,494	8,499
Ridgetown.....	1,294.0	5,818.6	51,635	6,470	1,294
Ripley.....	284.6	1,239.6	11,622	.....	285
Riverside.....	5,898.9	27,936.0	211,498	29,495	5,899
Rockland.....	914.1	4,346.3	32,533	.....	914
Rockwood.....	385.8	1,836.8	16,514	1,929	386
Rodney.....	462.0	2,123.2	18,104	2,310	462
Rosseau.....	99.8	433.8	4,096	.....	100
Russell.....	266.4	1,245.5	9,480	.....	266
St. Catharines.....	41,058.5	211,224.5	1,353,813	205,292	41,059
St. Clair Beach.....	533.6	2,482.6	19,604	2,668	534
St. George.....	466.7	2,220.0	17,751	2,334	467
St. Jacobs.....	454.4	1,815.5	18,575	2,272	454
St. Mary's.....	9,890.4	60,395.4	345,792	49,452	9,890

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
70	.....	28,602	28,729.42	127.42	39.00	38.82
323	.....	134,110	131,297.84	2,812.16	38.50	39.32
56	1,309	26,133	27,383.02	1,250.02	43.25	41.28
336	241	153,672	160,009.68	6,337.68	39.75	38.18
19	7	9,963	10,596.20	633.20	48.75	45.83
529	.....	234,061	235,587.78	1,526.78	42.50	42.22
1,052	511	423,853	435,293.44	11,440.44	46.25	45.03
140	.....	62,543	62,709.71	166.71	45.25	45.13
177	.....	79,396	80,356.24	960.24	43.60	43.08
103	.....	48,568	50,257.66	1,689.66	45.25	43.73
697	.....	256,154	275,096.26	18,942.26	37.00	34.45
88	460	40,185	40,864.45	679.45	35.30	34.71
110	.....	51,165	52,610.60	1,445.60	43.30	42.11
22	.....	10,711	11,355.48	644.48	48.50	45.75
93	2,003	44,944	45,154.50	210.50	45.90	45.68
293	3,004	122,740	120,558.79	2,181.21	38.00	38.69
799	7,352	339,467	343,200.03	3,733.03	39.25	38.82
4	.....	1,861	2,046.75	185.75	45.00	40.90
21	371	10,596	11,001.40	405.40	45.00	43.34
31	.....	13,592	13,733.72	141.72	43.50	43.05
334	.....	142,776	138,967.40	3,808.60	37.00	38.01
48	.....	19,085	19,373.60	288.60	36.60	36.06
786	.....	373,440	383,299.64	9,859.64	45.10	43.94
113	295	59,217	62,437.51	3,220.51	48.25	45.76
24	.....	11,931	12,876.27	945.27	45.25	41.92
531	.....	247,423	254,831.40	7,408.40	43.20	41.94
83	.....	33,530	33,272.65	257.35	36.40	36.68
35	656	18,208	18,361.69	153.69	47.60	47.20
41	96	20,821	22,175.20	1,354.20	48.00	45.07
9	.....	4,205	4,249.74	44.74	42.60	42.13
24	.....	9,770	9,671.56	98.44	36.30	36.67
3,841	.....	1,604,005	1,609,492.88	5,487.88	39.20	39.07
48	.....	22,854	23,105.97	251.97	43.30	42.83
42	106	20,488	20,722.96	234.96	44.40	43.90
37	124	21,214	21,176.21	37.79	46.60	46.69
1,006	4,904	401,236	418,363.93	17,127.93	42.30	40.57

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
St. Thomas.....	13,612.2	76,641.5	460,585	68,061	13,612
Sandwich East Twp.....	5,720.7	29,460.2	206,761	28,603	5,721
Sandwich West Twp.....	10,559.1	52,416.8	376,136	52,796	10,559
Sarnia.....	116,372.6	920,753.0	4,421,532	581,863	116,373
Scarborough Twp.....	120,599.7	641,029.6	4,079,354	602,998	120,600
Seaforth.....	1,587.3	7,229.7	51,006	7,937	1,587
Shelburne.....	763.5	3,440.4	32,025	.....	764
Simcoe.....	7,018.3	36,898.0	237,323	35,091	7,018
Smith's Falls.....	6,780.8	33,869.8	226,062	.....	6,781
Smithville.....	562.9	2,330.4	21,583	2,815	563
Southampton.....	1,038.4	5,399.6	44,980	.....	1,038
Springfield.....	218.4	960.4	7,740	1,092	218
Stamford Twp.....	15,137.6	79,826.0	510,716	75,688	15,138
Stayner.....	946.2	4,692.0	37,605	.....	946
Stirling.....	826.4	3,775.4	28,138	.....	826
Stoney Creek.....	3,280.9	16,416.6	118,503	16,404	3,281
Stouffville.....	1,749.8	8,310.9	68,907	8,749	1,750
Stratford.....	14,866.7	77,999.3	489,276	74,334	14,867
Strathroy.....	3,294.6	16,790.8	109,404	16,473	3,294
Streetsville.....	2,760.2	13,819.3	98,146	13,801	2,760
Sunderland.....	392.5	1,761.6	15,849	.....	393
Sundridge.....	310.4	1,572.0	13,021	.....	310
Sutton.....	917.8	4,889.8	37,397	4,589	918
Swansea.....	5,627.0	33,449.8	197,877	28,135	5,627
Tara.....	395.8	1,810.4	15,736	.....	396
Tavistock.....	771.0	3,844.0	30,062	3,855	771
Tecumseh.....	1,263.0	6,103.2	46,487	6,315	1,263
Teeswater.....	639.0	2,946.0	26,754	.....	639
Thamesford.....	645.7	3,194.4	26,750	3,228	646
Thamesville.....	646.6	2,773.3	26,350	3,233	647
Thedford.....	392.3	1,888.4	15,966	1,962	392
Thornbury.....	769.6	3,667.2	31,616	.....	770
Thorndale.....	235.9	968.8	9,028	1,179	236
Thornton.....	114.5	474.2	4,292	.....	114
Thorold.....	10,811.8	66,892.5	379,691	54,059	10,812
Tilbury.....	1,188.6	5,309.0	47,657	5,943	1,189



## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
1,329	13,922	529,665	540,405.66	10,740.66	39.70	38.91
535	.....	241,620	245,418.04	3,798.04	42.90	42.24
971	.....	440,462	450,873.22	10,411.22	42.70	41.71
13,623	4,637	5,128,754	5,149,489.03	20,735.03	44.25	44.07
11,457	88	4,814,321	4,932,527.73	118,206.73	40.90	39.92
140	3,653	57,017	57,934.94	917.94	36.50	35.92
67	.....	32,856	35,500.43	2,644.43	46.50	43.03
664	339	279,757	284,240.17	4,483.17	40.50	39.86
626	.....	233,469	233,258.65	210.35	34.40	34.43
48	.....	25,009	25,894.56	885.56	46.00	44.43
98	.....	46,116	47,248.70	1,132.70	45.50	44.41
19	55	9,014	9,391.91	377.91	43.00	41.27
1,432	642	602,332	612,313.89	9,981.89	40.45	39.79
87	1,576	37,062	38,605.64	1,543.64	40.80	39.17
73	.....	29,037	29,748.60	711.60	36.00	35.14
303	.....	138,491	143,045.42	4,554.42	43.60	42.21
158	.....	79,564	80,840.40	1,276.40	46.20	45.47
1,404	11,758	568,123	576,828.60	8,705.60	38.80	38.21
307	3,909	125,569	128,491.05	2,922.05	39.00	38.11
255	.....	114,962	117,859.84	2,897.84	42.70	41.65
35	2,291	13,986	16,798.97	2,812.97	42.80	35.63
28	.....	13,359	14,277.66	918.66	46.00	43.04
88	.....	42,992	44,052.00	1,060.00	48.00	46.84
564	.....	232,203	235,770.61	3,567.61	41.90	41.27
35	.....	16,167	17,116.55	949.55	43.25	40.85
71	461	34,298	34,462.59	164.59	44.70	44.49
115	.....	54,180	55,317.95	1,137.95	43.80	42.90
57	.....	27,450	28,755.76	1,305.76	45.00	42.96
59	1,077	29,606	30,669.17	1,063.17	47.50	45.85
56	98	30,188	30,648.84	460.84	47.40	46.69
36	.....	18,356	19,221.08	865.08	49.00	46.79
69	.....	32,455	33,863.86	1,408.86	44.00	42.17
20	1,005	9,458	9,906.40	448.40	42.00	40.09
10	16	4,400	4,431.50	31.50	38.70	38.43
1,108	.....	445,670	450,851.37	5,181.37	41.70	41.22
104	165	54,728	56,754.86	2,026.86	47.75	46.04

**SOUTHERN ONTARIO**  
**STATEMENT OF THE ALLOCATION**  
**for the Year**

Municipality	Power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)
	kw	megawatt- hours	\$	\$	\$
Tillsonburg.....	4,664.0	22,484.5	150,395	23,320	4,664
Toronto.....	571,659.1	3,354,932.0	19,395,361	2,858,297	571,659
Toronto Twp.....	47,166.0	303,930.6	1,725,372	235,830	47,166
Tottenham.....	364.1	1,783.6	15,199	.....	364
Trafalgar Twp.....	9,336.1	59,748.4	347,755	46,680	9,336
Trenton.....	14,866.2	85,890.2	504,008	.....	14,866
Tweed.....	1,012.1	4,687.7	37,034	.....	1,012
Uxbridge.....	1,522.9	7,533.6	63,428	.....	1,523
Vankleek Hill.....	533.4	2,483.9	19,260	.....	533
Victoria Harbour.....	335.4	1,522.4	13,968	.....	335
Walkerton.....	2,721.2	11,273.9	91,990	.....	2,721
Wallaceburg.....	7,364.4	43,676.8	259,183	36,822	7,364
Wardsville.....	164.7	774.6	6,675	824	165
Warkworth.....	247.2	1,013.1	9,061	.....	247
Wasaga Beach.....	660.0	2,526.4	25,890	.....	660
Waterdown.....	950.2	4,780.8	33,945	4,751	950
Waterford.....	952.0	4,193.2	34,918	4,760	952
Waterloo.....	15,457.5	81,609.0	465,767	77,287	15,457
Watford.....	1,162.7	5,145.8	46,265	5,814	1,163
Waubashene.....	289.0	1,301.6	12,004	.....	289
Welland.....	13,380.5	69,921.5	448,761	66,902	13,380
Wellesley.....	388.7	1,611.2	14,561	1,944	389
Wellington.....	551.9	2,524.1	23,014	.....	552
West Lorne.....	915.6	3,897.6	36,217	4,578	915
Weston.....	8,166.3	44,564.7	282,118	40,831	8,166
Westport.....	346.9	1,636.0	13,222	.....	347
Wheatley.....	771.7	3,429.3	30,873	3,859	771
Whitby.....	10,129.3	53,574.3	340,781	.....	10,129
Wiarton.....	1,209.5	6,386.4	52,195	.....	1,210
Williamsburg.....	205.5	923.0	8,530	.....	206
Winchester.....	1,110.0	5,736.4	44,999	.....	1,110
Windermere.....	125.0	536.4	4,881	.....	125
Windsor.....	76,057.5	389,650.7	2,503,722	380,287	76,058
Wingham.....	2,114.9	10,635.5	82,046	.....	2,115
Woodbridge.....	1,943.9	9,543.6	72,749	9,720	1,944
Woodstock.....	16,991.9	93,981.5	570,317	84,959	16,992
Woodville.....	186.3	862.8	7,958	.....	186
Wyoming.....	357.6	1,562.0	14,337	1,788	357
York Twp.....	57,252.3	333,903.1	1,943,768	286,262	57,252
Zurich.....	371.9	1,621.2	14,955	1,859	372
Total—Municipalities.....	2,968,929.9	16,828,812.9	102,566,485	11,809,145	2,968,930

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for nuclear research (Note 5)	Credit resulting from matured sinking fund (Note 1)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
423	4,961	173,841	176,765.92	2,924.92	37.90	37.27
56,996	220,600	22,661,713	23,009,278.11	347,565.11	40.25	39.64
4,933	1,095	2,012,206	2,049,361.25	37,155.25	43.45	42.66
33	42	15,554	16,131.11	577.11	44.30	42.72
973	.....	404,744	401,452.66	3,291.34	43.00	43.35
1,471	.....	520,345	516,599.29	3,745.71	34.75	35.00
90	.....	38,136	37,952.20	183.80	37.50	37.68
140	.....	65,091	66,397.37	1,306.37	43.60	42.74
48	.....	19,841	21,604.09	1,763.09	40.50	37.20
30	682	13,651	14,254.14	603.14	42.50	40.70
232	.....	94,943	102,724.99	7,781.99	37.75	34.89
738	1,463	302,644	303,412.95	768.95	41.20	41.10
15	.....	7,679	8,113.12	434.12	49.25	46.62
20	.....	9,328	9,515.92	187.92	38.50	37.73
54	.....	26,604	27,718.60	1,114.60	42.00	40.31
88	893	38,841	39,146.17	305.17	41.20	40.88
83	239	40,474	41,126.40	652.40	43.20	42.51
1,464	5,741	554,234	559,562.39	5,328.39	36.20	35.86
102	103	53,241	54,182.99	941.99	46.60	45.79
25	344	11,974	11,934.34	39.66	41.30	41.43
1,261	5,582	524,722	527,192.69	2,470.69	39.40	39.22
33	213	16,714	16,907.37	193.37	43.50	43.00
49	.....	23,615	23,070.14	544.86	41.80	42.79
79	148	41,641	44,864.82	3,223.82	49.00	45.48
786	5,477	326,424	333,184.70	6,760.70	40.80	39.97
31	.....	13,600	13,319.36	280.64	38.40	39.20
67	.....	35,570	36,426.20	856.20	47.20	46.09
960	.....	351,870	352,498.77	628.77	34.80	34.74
114	.....	53,519	54,789.99	1,270.99	45.30	44.25
18	62	8,692	9,039.81	347.81	44.00	42.30
104	1,686	44,527	45,510.70	983.70	41.00	40.11
11	.....	5,017	5,114.20	97.20	40.90	40.14
7,102	61,981	2,905,188	2,947,229.10	42,041.10	38.75	38.20
195	.....	84,356	89,883.96	5,527.96	42.50	39.89
178	1,335	83,256	85,336.14	2,080.14	43.90	42.83
1,646	7,326	666,588	676,278.29	9,690.29	39.80	39.23
16	2,209	5,951	6,518.74	567.74	35.00	31.94
31	67	16,446	16,662.22	216.22	46.60	45.99
5,691	.....	2,292,973	2,327,303.98	34,330.98	40.65	40.05
31	111	17,106	17,442.11	336.11	46.90	46.00
290,954	753,059	116,882,455	118,555,784.91	1,673,329.91	.....	.....



SOUTHERN ONTARIO

Summary of the Allocation  
for the Year

	Power and energy supplied during year (principal bases of cost allocation)		Cost of			
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 2)	Frequency standardi- zation (Note 3)	Provision for stabilization of rates and contingencies (Note 4)	Provision for nuclear research (Note 5)
	kw	megawatt- hours	\$	\$	\$	\$
Municipalities.....	2,968,929.9	16,828,812.9	102,566,485	11,809,145	2,968,930	290,954
Rural Power District.....	485,653.7	2,508,393.6	19,058,723	1,413,226	485,654	45,517
Direct customers (Note 1):						
Municipal.....	236,483.0	2,094,095.7	9,973,832	255,447	{ 236,483 394,519 }	31,283
Rural.....	362,169.7	2,538,623.7	13,198,690	394,486	362,169	39,665
Local distribution systems.....	1,173.7	4,972.0	105,176	.....	1,174	101
Secondary energy:						
60-cycle export.....	.....	2,825,767.0	321,415	4,420,415	.....	.....
Other (Note 2).....	.....	1,187,010.7	.....	.....	.....	.....
GRAND TOTAL.....	4,054,410.0	27,987,675.6	145,224,321	18,292,719	4,448,929	407,520

NOTES

1. In 1960, two separate categories of direct customers have been recognized, namely, those located within the boundaries of cost-contract municipalities (Municipal Direct Customers) and those located outside these boundaries (Rural Direct Customers). The cost of power of municipal direct customers has been reduced, and that of municipalities with matured sinking funds correspondingly increased, by \$88,142, an amount calculated by dividing the total credit resulting from these matured sinking funds (\$841,201) in proportion to the average monthly peak loads of the two groups. Also in 1960, a provision for stabilization of rates and contingencies has been made in an amount equal to the net income from municipal direct customers (\$394,519—see Note 4), the reserve so created to be retained for the future benefit of these customers as a group. The net income from rural direct customers has been deducted from the cost of power of the Rural Power District.

In prior years the cost of power of direct customers was not reduced by amounts calculated with reference to the credit resulting from matured sinking funds, and the net income or loss from serving these customers was applied to reduce or increase the cost of power of municipalities and the Rural Power District proportionally to their average monthly peak loads.

Except as indicated above, the method used in 1959 to allocate the cost of power supplied to each customer was followed in 1960.

2. The total of \$145,224,321 shown under the heading "Power purchased, operating costs, and fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased.....	\$ 12,586,660
Operation, maintenance, and administrative expenses.....	51,101,847
Interest.....	60,055,602
Depreciation.....	13,074,301
Sinking fund provision.....	16,250,362
Interchange of power with Northern Ontario Properties (1,357,163 megawatt-hours).....	4,503,699
Sale of secondary energy, other than 60-cycle export.....	3,340,752
	<u>\$145,224,321</u>

## SYSTEM

## of the Cost of Primary Power

Ended December 31, 1960

primary power						
Credit resulting from matured sinking fund (Note 1)	Sale of 60-cycle secondary export energy	Total cost of primary power	Net income from rural direct customers (Note 1)	Net cost of primary power	Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged
\$	\$	\$	\$	\$	\$	\$
753,059	.....	116,882,455	.....	116,882,455	118,555,784.91	1,673,329.91
.....	.....	21,003,120	368,349	20,634,771	20,634,771.00	.....
88,142	.....	10,803,422	.....	10,803,422	10,803,422.00	.....
.....	.....	13,995,010	384,348	14,379,358	14,379,358.00	.....
.....	.....	106,451	15,999	90,452	90,452.00	.....
.....	4,741,830	.....	.....	.....	.....	.....
841,201	4,741,830	162,790,458	.....	162,790,458	164,463,787.91	1,673,329.91

3. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest .....	\$ 7,487,076
Portion of cost written off .....	10,805,643
	<u>\$ 18,292,719</u>

This represents a charge to all customers in the Niagara Division (except those which are not being supplied at 60 cycles) at the rate of \$5 per kilowatt on the average monthly peak load supplied amounting to \$13,872,304 plus an amount equal to the net revenue on the export of 60-cycle secondary energy amounting to \$4,420,415.

4. The provision for stabilization of rates and contingencies totalling \$4,448,929 consists of a charge of \$1 per kilowatt on the average monthly peak load supplied to all customers (\$4,054,410) plus an amount equal to the net income from municipal direct customers (\$394,519—see Note 1) to be retained for the future benefit of these customers as a group.

5. The provision of \$407,520 for nuclear research was charged to all customers within the system on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Southern Ontario System's share of a total provision of \$500,000 charged proportionally on the basis of average monthly peak loads in the Southern Ontario System and the Northern Ontario Properties.

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Acton.....	366,083.60	29,590.34	.....	395,673.94
Ailsa Craig.....	53,036.50	3,301.46	.....	56,337.96
Ajax.....	75,505.44	25,781.22	.....	101,286.66
Alexandria.....	133,969.51	13,784.78	.....	147,754.29
Alfred.....	6,198.72	1,982.95	.....	8,181.67
Alliston.....	130,136.76	13,427.47	.....	143,564.23
Almonte.....	50,497.07	8,091.88	.....	58,588.95
Alvinston.....	51,940.19	3,160.61	.....	55,100.80
Amherstburg.....	287,018.81	24,174.75	.....	311,193.56
Ancaster Twp.....	116,277.59	13,460.10	.....	129,737.69
Apple Hill.....	12,543.87	891.75	.....	13,435.62
Arkona.....	29,584.52	2,633.38	.....	32,217.90
Arnprior.....	195,013.47	25,241.54	.....	220,255.01
Arthur.....	77,503.68	6,217.15	.....	83,720.83
Athens.....	32,114.57	3,009.58	.....	35,124.15
Aurora.....	163,545.15	26,588.81	39.97	190,173.93
Avonmore.....	3,756.73	786.27	.....	4,543.00
Aylmer.....	263,593.58	26,227.74	.....	289,821.32
Ayr.....	68,293.02	4,820.72	.....	73,113.74
Baden.....	114,312.36	6,376.49	.....	120,688.85
Bancroft.....	28,519.40	7,245.78	383.35	36,148.53
Barrie.....	905,632.76	93,915.31	.....	999,548.07
Barry's Bay.....	10,751.82	2,146.07	.....	12,897.89
Bath.....	16,240.50	1,989.62	.....	18,230.12
Beachville.....	186,836.85	15,553.47	.....	202,390.32
Beamsville.....	79,288.11	9,047.52	.....	88,335.63
Beaverton.....	91,099.00	4,796.96	.....	95,895.96
Beeton.....	56,435.36	4,203.41	.....	60,638.77
Belle River.....	59,052.73	5,291.11	.....	64,343.84
Belleville.....	1,190,115.41	133,271.62	878.11	1,324,265.14
Blenheim.....	163,181.97	12,215.28	.....	175,397.25
Bloomfield.....	34,900.13	3,055.01	.....	37,955.14
Blyth.....	52,146.98	4,920.88	.....	57,067.86
Bobcaygeon.....	25,475.87	4,148.03	159.39	29,783.29
Bolton.....	76,965.91	7,739.66	.....	84,705.57
Bothwell.....	61,001.29	3,912.05	.....	64,913.34
Bowmanville.....	441,786.37	41,639.45	.....	483,425.82
Bracebridge.....	1,860.64	169.43	.....	2,030.07
Bradford.....	102,659.73	11,324.39	.....	113,984.12
Braeside.....	19,118.36	6,910.73	.....	26,029.09
Brampton.....	785,063.33	69,612.53	.....	854,675.86
Brantford.....	4,403,552.75	330,184.11	.....	4,733,736.86
Brantford Twp.....	202,997.93	29,971.92	.....	232,969.85
Brechin.....	24,003.72	394.85	.....	23,608.87
Bridgeport.....	47,010.98	5,255.44	.....	52,266.42



**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Brigden.....	41,403.48	2,534.14	.....	43,937.62
Brighton.....	87,744.80	9,284.79	.....	97,029.59
Brockville.....	1,032,719.85	97,039.79	9,216.88	1,138,976.52
Brussels.....	62,458.29	5,385.33	.....	67,843.62
Burford.....	67,042.74	5,810.71	.....	72,853.45
Burgessville.....	21,881.38	1,636.26	.....	23,517.64
Burk's Falls.....	15,199.84	3,413.99	.....	18,613.83
Burlington.....	582,588.36	142,204.53	.....	724,792.89
Caledonia.....	99,425.71	7,597.03	.....	107,022.74
Campbellford.....	829.83	2,930.19	.....	3,760.02
Campbellville.....	14,082.87	1,228.31	.....	15,311.18
Cannington.....	67,410.40	2,143.42	.....	69,553.82
Cardinal.....	58,024.36	6,165.97	.....	64,190.33
Carleton Place.....	361,353.50	28,271.14	.....	389,624.64
Casselman.....	14,291.99	3,536.68	.....	17,828.67
Cayuga.....	44,476.76	3,586.07	.....	48,062.83
Chalk River.....	10,335.02	2,263.40	.....	12,598.42
Chatham.....	1,824,184.81	145,918.39	.....	1,970,103.20
Chatsworth.....	24,792.22	2,141.69	.....	26,933.91
Chesley.....	151,311.53	10,904.46	.....	162,215.99
Chesterville.....	114,826.55	6,645.06	.....	121,471.61
Chippawa.....	80,901.16	8,202.05	.....	89,103.21
Clifford.....	35,778.64	3,051.15	.....	38,829.79
Clinton.....	211,780.30	15,013.21	195.00	226,988.51
Cobden.....	27,555.26	3,455.23	.....	31,010.49
Cobourg.....	475,170.54	55,324.82	.....	530,495.36
Colborne.....	47,147.75	5,781.91	.....	52,929.66
Coldwater.....	53,396.45	3,583.86	.....	56,980.31
Collingwood.....	588,113.66	31,110.55	.....	619,224.21
Comber.....	61,409.77	3,570.39	.....	64,980.16
Cookstown.....	27,442.98	2,454.72	.....	29,897.70
Cottam.....	23,121.11	1,961.84	.....	25,082.95
Courtright.....	22,351.20	1,601.05	.....	23,952.25
Creemore.....	49,555.65	2,793.23	.....	52,348.88
Dashwood.....	35,656.81	2,688.27	.....	38,345.08
Deep River.....	24,642.36	14,244.69	.....	38,887.05
Delaware.....	19,272.36	1,769.89	.....	21,042.25
Delhi.....	107,167.01	14,164.68	.....	121,331.69
Deseronto.....	60,388.69	6,748.55	.....	67,137.24
Dorchester.....	34,355.27	2,644.21	.....	36,999.48
Drayton.....	49,306.07	3,453.24	.....	52,759.31
Dresden.....	140,079.29	11,774.17	.....	151,853.46
Drumbo.....	28,907.97	2,041.32	.....	30,949.29
Dublin.....	22,307.59	1,791.30	.....	24,098.89
Dundalk.....	58,507.88	4,844.32	.....	63,352.20

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Dundas.....	608,630.75	51,735.23	.....	660,365.98
Dunnville.....	322,493.42	27,746.74	.....	350,240.16
Durham.....	133,086.84	12,013.47	.....	145,100.31
Dutton.....	71,736.38	4,616.46	.....	76,352.84
East York Twp.....	2,164,461.54	224,509.46	.....	2,388,971.00
Eganville.....	9,355.87	2,771.23	.....	12,127.10
Elmira.....	343,881.97	27,473.28	.....	371,355.25
Elmvale.....	59,806.93	3,199.28	.....	63,006.21
Elmwood.....	20,572.46	1,540.90	.....	22,113.36
Elora.....	139,196.07	6,973.84	.....	146,169.91
Embro.....	45,541.35	2,460.65	.....	48,002.00
Erieau.....	38,481.12	3,294.24	.....	41,775.36
Erie Beach.....	7,015.26	533.61	.....	7,548.87
Erin.....	15,650.42	3,064.02	.....	18,714.44
Essex.....	155,213.44	11,455.55	.....	166,668.99
Etobicoke Twp.....	3,297,425.62	580,923.02	.....	3,878,348.64
Exeter.....	205,773.97	17,632.96	.....	223,406.93
Fergus.....	320,561.91	25,927.48	.....	346,489.39
Finch.....	23,221.79	2,097.87	.....	25,319.66
Flesherton.....	28,838.06	2,683.52	.....	31,521.58
Fonthill.....	57,496.04	7,082.84	.....	64,578.88
Forest.....	158,006.78	12,604.27	.....	170,611.05
Forest Hill.....	1,075,373.71	96,012.95	.....	1,171,386.66
Frankford.....	20,094.95	3,591.80	.....	23,686.75
Galt.....	2,363,779.35	173,400.17	.....	2,537,179.52
Georgetown.....	509,983.62	46,025.34	.....	556,008.96
Glencoe.....	78,098.44	5,735.94	.....	83,834.38
Goderich.....	529,410.85	39,832.43	.....	569,243.28
Grand Bend.....	40,588.22	5,433.53	.....	46,021.75
Grand Valley.....	53,825.95	4,212.04	.....	58,037.99
Granton.....	26,241.70	1,439.67	.....	27,681.37
Gravenhurst.....	201,441.04	18,549.64	.....	219,990.68
Grimsby.....	119,699.64	16,057.99	.....	135,757.63
Guelph.....	2,822,772.36	232,010.89	.....	3,054,783.25
Hagersville.....	281,018.68	16,002.75	.....	297,021.43
Hamilton.....	25,558,236.94	2,306,898.48	74,334.06	27,939,469.48
Hanover.....	357,454.10	29,486.16	.....	386,940.26
Harriston.....	147,744.57	10,975.78	.....	158,720.35
Harrow.....	134,843.33	11,070.73	.....	145,914.06
Hastings.....	28,268.49	3,024.74	.....	31,293.23
Havelock.....	52,411.30	4,392.45	.....	56,803.75
Hawkesbury.....	47,725.92	12,862.04	.....	60,587.96
Hensall.....	75,974.10	6,244.96	.....	82,219.06
Hespeler.....	558,134.27	41,332.37	.....	599,466.64
Highgate.....	34,551.68	2,188.07	.....	36,739.75

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Holstein .....	11,133.37	927.33	.....	12,060.70
Huntsville .....	289,446.73	23,125.87	.....	312,572.60
Ingersoll .....	723,705.68	44,782.23	.....	768,487.91
Iroquois .....	39,007.60	4,670.30	.....	43,677.90
Jarvis .....	56,700.41	3,834.04	.....	60,534.45
Kemptville .....	114,681.20	11,650.25	.....	126,331.45
Kincardine .....	211,214.45	19,007.58	.....	230,222.03
Kingston .....	1,852,957.19	225,550.29	.....	2,078,507.48
Kingsville .....	184,551.98	13,514.08	.....	198,066.06
Kirkfield .....	12,223.53	776.94	.....	13,000.47
Kitchener .....	5,796,797.16	446,718.89	.....	6,243,516.05
Lakefield .....	90,403.08	8,728.12	.....	99,131.20
Lambeth .....	56,280.10	5,904.20	.....	62,184.30
Lanark .....	29,878.49	2,524.14	.....	32,402.63
Lancaster .....	24,217.60	2,155.70	.....	26,373.30
Leamington .....	484,363.40	43,641.54	.....	528,004.94
Lindsay .....	623,793.29	62,046.73	.....	685,840.02
Listowel .....	347,183.38	25,825.34	.....	373,008.72
London .....	9,132,823.72	572,777.95	919.60	9,706,521.27
London Twp. ....	125,417.99	11,648.72	.....	137,066.71
Long Branch .....	331,233.94	40,338.36	.....	371,572.30
L'Orignal .....	7,542.17	1,822.69	.....	9,364.86
Lucan .....	73,264.84	5,195.59	.....	78,460.43
Lucknow .....	89,673.66	7,017.95	.....	96,691.61
Lynden .....	44,449.75	2,849.99	.....	47,299.74
Madoc .....	60,180.70	6,259.23	.....	66,439.93
Magnetawan .....	2,906.53	533.26	.....	3,439.79
Markdale .....	52,488.19	5,082.53	.....	57,570.72
Markham .....	123,659.85	16,754.39	.....	140,414.24
Marmora .....	42,641.57	4,910.66	.....	47,552.23
Martintown .....	11,208.12	1,093.32	.....	12,301.44
Maxville .....	42,135.05	3,716.40	.....	45,851.45
Meaford .....	192,708.24	19,861.33	.....	212,569.57
Merlin .....	41,413.88	2,898.56	.....	44,312.44
Merrickville .....	14,810.25	2,439.41	.....	17,249.66
Merritton .....	1,268,541.61	128,939.66	.....	1,397,481.27
Midland .....	851,543.16	53,171.73	.....	904,714.89
Mildmay .....	30,541.76	3,509.67	.....	34,051.43
Millbrook .....	21,698.57	2,891.94	.....	24,590.51
Milton .....	417,591.92	28,459.67	.....	446,051.59
Milverton .....	150,088.98	9,401.56	.....	159,490.54
Mimico .....	657,763.72	58,638.55	.....	716,402.27
Mitchell .....	187,564.54	13,647.58	.....	201,212.12
Moorefield .....	24,763.52	1,851.54	.....	26,615.06
Morrisburg .....	61,803.12	7,848.12	.....	69,651.24



# SOUTHERN ONTARIO SYSTEM

## STATEMENT OF SINKING FUND EQUITY

as at December 31, 1960

(continued)

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Mount Brydges.....	32,945.65	2,768.83	.....	35,714.48
Mount Forest.....	159,828.19	14,572.13	.....	174,400.32
Napanee.....	267,397.36	26,051.89	.....	293,449.25
Neustadt.....	25,885.01	2,152.40	.....	28,037.41
Newboro.....	3,324.27	525.97	.....	3,850.24
Newburgh.....	8,396.78	1,474.87	.....	9,871.65
Newbury.....	16,904.93	1,201.20	.....	18,106.13
Newcastle.....	41,685.22	5,193.41	.....	46,878.63
New Hamburg.....	182,878.22	11,139.13	.....	194,017.35
Newmarket.....	216,892.38	34,715.70	1,122.97	252,731.05
New Toronto.....	2,171,071.51	180,887.86	.....	2,351,959.37
Niagara.....	161,133.05	13,287.32	.....	174,420.37
Niagara Falls.....	2,141,907.27	145,671.29	.....	2,287,578.56
North York Twp.....	4,260,811.75	808,179.47	.....	5,068,991.22
Norwich.....	135,163.62	7,588.54	.....	142,752.16
Norwood.....	40,366.95	4,260.68	.....	44,627.63
Oakville-Trafalgar.....	609,229.69	147,151.19	.....	756,380.88
Oil Springs.....	74,471.65	4,021.87	.....	78,493.52
Omeme.....	24,000.56	2,793.02	.....	26,793.58
Orangeville.....	233,091.83	23,526.67	.....	256,618.50
Orillia.....	102,033.37	25,483.33	.....	127,516.70
Orono.....	20,304.31	2,874.17	.....	23,178.48
Oshawa.....	3,639,181.23	402,364.25	.....	4,041,545.48
Ottawa.....	4,855,038.98	804,898.56	.....	5,659,937.54
Otterville.....	38,161.35	3,089.45	.....	41,250.80
Owen Sound.....	1,124,276.94	93,123.08	.....	1,217,400.02
Paisley.....	48,292.95	3,785.72	.....	52,078.67
Palmerston.....	165,842.25	10,694.69	.....	176,536.94
Paris.....	438,826.05	28,057.04	.....	466,883.09
Parkhill.....	85,057.13	7,071.29	.....	92,128.42
Parry Sound.....	59,290.12	11,352.60	.....	70,642.72
Penetanguishene.....	251,435.04	11,923.40	.....	263,358.44
Perth.....	346,399.63	30,720.99	.....	377,120.62
Peterborough.....	2,399,427.12	247,384.08	.....	2,646,811.20
Petrolia.....	344,109.15	20,426.37	.....	364,535.52
Pickering.....	5,078.59	3,511.14	.....	8,589.73
Pictou.....	299,991.69	27,558.67	.....	327,550.36
Plattsville.....	48,772.15	3,309.89	.....	52,082.04
Point Edward.....	346,357.37	28,988.29	.....	375,345.66
Port Burwell.....	17,779.29	1,712.17	.....	19,491.46
Port Colborne.....	554,681.41	46,279.26	.....	600,960.67
Port Credit.....	339,363.19	58,337.53	.....	397,700.72
Port Dalhousie.....	178,072.03	13,616.88	.....	191,688.91
Port Dover.....	145,324.14	14,043.97	.....	159,368.11
Port Elgin.....	99,453.89	9,523.16	.....	108,977.05

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Port Hope.....	502,748.53	50,424.94	.....	553,173.47
Port McNicoll.....	60,933.54	6,423.34	.....	67,356.88
Port Perry.....	94,915.19	9,435.61	.....	104,350.80
Port Rowan.....	31,875.03	2,432.00	.....	34,307.03
Port Stanley.....	165,391.31	9,174.65	.....	174,565.96
Prescott.....	266,363.72	21,696.55	.....	288,060.27
Preston.....	1,001,194.38	67,919.78	.....	1,069,114.16
Priceville.....	4,407.39	366.30	.....	4,773.69
Princeton.....	38,002.49	2,227.10	.....	40,229.59
Queenston.....	30,620.92	2,637.84	.....	33,258.76
Renfrew.....	125,786.31	21,396.45	.....	147,182.76
Richmond.....	23,445.67	3,163.83	.....	26,609.50
Richmond Hill.....	233,182.10	48,078.28	.....	281,260.38
Ridgetown.....	166,936.79	12,516.47	.....	179,453.26
Ripley.....	34,932.64	2,788.31	.....	37,720.95
Riverside.....	429,526.40	42,575.06	.....	472,101.46
Rockland.....	17,354.89	4,568.20	.....	21,923.09
Rockwood.....	46,003.73	3,039.15	.....	49,042.88
Rodney.....	56,473.43	4,553.94	.....	61,027.37
Rosseau.....	14,933.51	1,048.31	.....	15,981.82
Russell.....	24,755.91	2,116.24	.....	26,872.15
St. Catharines.....	3,691,368.81	314,488.75	.....	4,005,857.56
St. Clair Beach.....	35,800.54	3,774.02	600.33	40,174.89
St. George.....	53,872.98	4,158.92	.....	58,031.90
St. Jacobs.....	68,770.00	4,784.80	.....	73,554.80
St. Mary's.....	519,037.97	58,301.52	.....	577,339.49
St. Thomas.....	1,825,214.31	114,399.57	.....	1,939,613.88
Sandwich East Twp.....	193,005.10	32,540.20	.....	225,545.30
Sandwich West Twp.....	348,802.09	59,435.08	.....	408,237.17
Sarnia.....	3,498,588.38	688,468.54	.....	4,187,056.92
Scarborough Twp.....	3,446,713.16	643,303.53	.....	4,090,016.69
Seaforth.....	214,858.49	10,810.34	.....	225,668.83
Shelburne.....	89,030.80	7,266.23	.....	96,297.03
Simcoe.....	552,539.45	51,007.58	.....	603,547.03
Smith's Falls.....	546,534.05	49,391.36	.....	595,925.41
Smithville.....	33,341.43	3,860.66	.....	37,202.09
Southampton.....	94,746.43	8,935.86	.....	103,682.29
Springfield.....	31,878.17	2,141.13	.....	34,019.30
Stamford Twp.....	722,698.38	90,732.94	.....	813,431.32
Stayner.....	80,945.99	5,769.84	.....	86,715.83
Stirling.....	57,793.33	5,692.73	.....	63,486.06
Stoney Creek.....	90,698.06	18,014.92	.....	108,712.98
Stouffville.....	110,222.33	12,609.89	.....	122,832.22
Stratford.....	2,081,097.41	130,889.90	.....	2,211,987.31
Strathroy.....	364,031.91	23,663.28	.....	387,695.19

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Streetsville.....	90,062.58	15,567.50	.....	105,630.08
Sunderland.....	41,880.92	994.24	.....	42,875.16
Sundridge.....	9,066.47	2,131.66	.....	11,198.13
Sutton.....	92,165.27	8,388.61	.....	100,553.88
Swansea.....	480,911.20	43,760.45	.....	524,671.65
Tara.....	37,277.72	3,278.11	.....	40,555.83
Tavistock.....	165,033.20	9,671.33	.....	174,704.53
Tecumseh.....	127,988.83	10,663.55	.....	138,652.38
Teeswater.....	56,737.57	5,288.50	.....	62,026.07
Thamesford.....	69,651.91	4,731.07	.....	74,382.98
Thamesville.....	75,749.36	6,041.97	.....	81,791.33
Thedford.....	43,852.10	3,731.08	.....	47,583.18
Thornbury.....	23,102.43	4,496.10	.....	27,598.53
Thornedale.....	32,610.09	1,246.40	.....	33,856.49
Thornton.....	13,359.48	1,001.38	.....	14,360.86
Thorold.....	647,077.76	72,859.11	.....	719,936.87
Tilbury.....	220,433.97	14,453.36	.....	234,887.33
Tillsonburg.....	383,280.65	28,367.23	.....	411,647.88
Toronto.....	73,548,040.34	5,120,435.86	.....	78,668,476.20
Toronto Twp.....	1,551,087.79	274,486.51	.....	1,825,574.30
Tottenham.....	44,060.61	3,440.42	.....	47,501.03
Trenton.....	749,667.43	92,103.70	.....	841,771.13
Tweed.....	71,957.66	7,256.31	.....	79,213.97
Uxbridge.....	108,810.79	11,563.43	.....	120,374.22
Vankleek Hill.....	11,921.55	2,737.86	.....	14,659.41
Victoria Harbour.....	28,926.52	1,906.06	.....	30,832.58
Walkerton.....	168,773.73	17,582.95	.....	186,356.68
Wallaceburg.....	948,033.88	68,208.36	.....	1,016,242.24
Wardsville.....	17,715.59	1,555.62	.....	19,271.21
Warkworth.....	21,244.02	1,900.76	.....	23,144.78
Wasaga Beach.....	17,206.39	3,478.26	.....	20,684.65
Waterdown.....	89,880.31	6,725.21	.....	96,605.52
Waterford.....	123,581.46	8,850.26	.....	132,431.72
Waterloo.....	1,229,740.27	102,096.61	6,371.12	1,338,208.00
Watford.....	111,608.74	9,813.35	.....	121,422.09
Waubashene.....	25,126.34	1,911.05	.....	27,037.39
Welland.....	1,486,317.18	108,289.69	.....	1,594,606.87
Wellesley.....	56,190.95	3,737.64	.....	59,928.59
Wellington.....	55,452.08	4,843.08	.....	60,295.16
West Lorne.....	114,754.27	9,129.17	.....	123,883.44
Weston.....	990,575.82	68,382.03	.....	1,058,957.85
Westport.....	29,891.59	2,745.66	.....	32,637.25
Wheatley.....	74,054.72	6,642.19	.....	80,696.91
Whitby.....	400,349.90	57,808.01	.....	458,157.91
Warton.....	95,346.54	9,712.86	.....	105,059.40



**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1960**  
**(concluded)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1960	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1960
	\$	\$	\$	\$
Williamsburg.....	25,943.17	1,946.73	.....	27,889.90
Winchester.....	98,369.58	7,319.78	.....	105,689.36
Windermere.....	13,298.49	1,078.94	.....	14,377.43
Windsor.....	11,789,088.96	711,094.56	.....	12,500,183.52
Wingham.....	193,158.65	17,613.35	.....	210,772.00
Woodbridge.....	180,538.38	14,497.54	.....	195,035.92
Woodstock.....	1,743,836.06	132,232.44	.....	1,876,068.50
Woodville.....	34,478.27	121.87	.....	34,356.40
Wyoming.....	37,681.53	3,142.26	.....	40,823.79
York Twp.....	4,202,471.47	410,437.86	.....	4,612,909.33
Zurich.....	51,498.72	3,741.94	.....	55,240.66
Total—Municipalities.....	238,662,672.26	21,377,764.14	94,220.78	260,134,657.18
Rural Power District.....	41,209,595.84	6,528,912.83	94,220.78	47,644,287.89
Administrative and service buildings and equipment.....	3,610,148.31	335,272.61	.....	3,945,420.92
GRAND TOTAL.....	283,482,416.41	28,241,949.58 (see note)	.....	311,724,365.99

NOTE: The net provision and interest credited during the year consist of the following amounts shown in the Statement of Sinking Fund Reserve.

Interest.....	\$11,339,296.90
Provision—direct.....	17,548,125.00
—indirect.....	248,071.00
	\$29,135,492.90
Less credits resulting from matured sinking funds.....	893,543.32
	\$28,241,949.58

NORTHERN ONTARIO

FIXED

Statement Showing Changes during

Property	*In		
	Balance January 1, 1960	Changes	
		Placed in service	Equipment relocated and reclassified
<b>Power System</b>	\$	\$	\$
HYDRO-ELECTRIC GENERATING STATIONS			
NORTHEASTERN DIVISION			
Abitibi River			
Abitibi Canyon.....	20,979,499	45,440	.....
Otter Rapids.....	.....	484	137,747
Mattagami River			
Little Long.....	.....	.....	.....
Mississagi River			
George W. Rayner.....	18,532,785	3,025	.....
Red Rock Falls.....	.....	8,640,000	8,568
Other properties.....	23,639,329	1,668,119	141,462
	63,151,613	10,357,068	4,853
NORTHWESTERN DIVISION			
Nipigon River			
Pine Portage.....	31,970,202	1,733	4,693
Cameron Falls.....	15,453,562	121,252	4,664
Alexander.....	11,428,791	241,793	204,954
Aguasabon River			
Aguasabon.....	12,678,175	4,912	.....
English River			
Caribou Falls.....	23,814,619	65,790	182,235
Manitou Falls.....	15,348,702	153,313	.....
Winnipeg River			
Whitedog Falls.....	20,762,835	291,787	182,235
Kaministiquia River			
Silver Falls.....	16,162,462	108,374	.....
Other properties.....	11,282,979	132,235	42,011
	158,902,327	1,117,723	153,586
THERMAL-ELECTRIC GENERATING STATIONS			
NORTHEASTERN DIVISION.....	387,490	412	.....
NORTHWESTERN DIVISION			
Thunder Bay.....	.....	.....	.....
	387,490	412	.....
Total generating stations.....	222,441,430	11,474,379	158,439
TRANSFORMER STATIONS			
Northeastern Division.....	24,660,132	1,124,693	10,901
Northwestern Division.....	10,182,984	677,656	179,516
Total transformer stations.....	34,843,116	1,802,349	190,417
TRANSMISSION LINES			
Northeastern Division.....	33,467,890	770,251	214
Northwestern Division.....	30,840,532	254,889	6,572
Total transmission lines.....	64,308,422	1,025,140	6,358

## PROPERTIES

## ASSETS

## Year 1960 and Balances at December 31, 1960

service				
during year				
Sales and retirements	Balance December 31, 1960	Under construction December 31, 1960	Total fixed assets December 31, 1960	Expenditures during 1960
\$	\$	\$	\$	\$
556	21,024,383	150,331	21,174,714	158,643
.....	138,231	20,471,644	20,609,875	10,493,634
.....	.....	5,832,716	5,832,716	5,832,716
.....	18,535,810	41,147	18,576,957	38,754
.....	8,648,568	7,759,389	16,407,957	5,706,029
26,663	25,139,323	500,587	25,639,910	708,270
27,219	73,486,315	34,755,814	108,242,129	22,938,046
140	31,963,636	4,965	31,968,601	595
87,355	15,482,795	27,377	15,510,172	40,405
5,872	11,869,666	26,027	11,895,693	174,486
1,128	12,681,959	1,435	12,683,394	2,509
.....	23,698,174	157,333	23,855,507	111,378
.....	15,502,015	.....	15,502,015	11,776
.....	21,236,857	157,310	21,394,167	337,352
.....	16,270,836	15,135	16,285,971	35,752
7,257	11,365,946	63,572	11,429,518	16,090
101,752	160,071,884	453,154	160,525,038	625,981
.....	387,078	4,529	391,607	4,117
.....	.....	17,781,333	17,781,333	7,448,868
.....	387,078	17,785,862	18,172,940	7,452,985
128,971	233,945,277	52,994,830	286,940,107	31,017,012
453,955	25,319,969	234,909	25,554,878	972,822
180,554	10,500,570	146,878	10,647,448	660,038
634,509	35,820,539	381,787	36,202,326	1,632,860
266,348	33,972,007	1,307,062	35,279,069	1,244,957
84,401	31,173,250	426,856	31,600,106	328,290
181,947	65,145,257	1,733,918	66,879,175	1,573,247



## NORTHERN ONTARIO

## FIXED

## Statement Showing Changes during

Property	In		
	Balance January 1, 1960	Changes	
		Placed in service	Equipment relocated and reclassified
<b>Power System—(Continued)</b>	\$	\$	\$
LOCAL SYSTEMS			
Northeastern Division.....	3,814,070	334,763	24,274
Northwestern Division.....	611,010	48,380	7,195
Total local systems.....	4,425,080	383,143	31,469
COMMUNICATIONS.....	3,980,059	157,953	567
Total power system.....	329,998,107	14,842,964	7,434
<b>Administrative and Service Buildings and Equipment</b>			
BUILDINGS.....	2,199,185	267,681	42,011
OFFICE AND SERVICE EQUIPMENT.....	761,359	66,674	.....
Total administrative and service buildings and equipment.....	2,960,544	334,355	42,011
<b>Rural Power District</b>	38,824,379	2,692,897	34,577
TOTAL FIXED ASSETS.....	371,783,030	17,870,216	.....

## Changes in Assets under Construction during 1960

Under construction at January 1, 1960.....	\$ 35,963,514
Expenditures during 1960.....	37,505,352
	\$ 73,468,866
Less—Placed in service during 1960.....	17,870,216
Under construction at December 31, 1960.....	\$ 55,598,650

## PROPERTIES

## ASSETS

## Year 1960 and Balances at December 31, 1960

service				
during year				
Sales and retirements	Balance December 31, 1960	Under construction December 31, 1960	Total fixed assets December 31, 1960	Expenditures during 1960
\$	\$	\$	\$	\$
50,025	4,123,082	106,184	4,229,266	363,283
5,803	660,782	18,760	679,542	60,885
55,828	4,783,864	124,944	4,908,808	424,168
219,222	3,918,223	89,890	4,008,113	70,992
1,220,477	343,613,160	55,325,369	398,938,529	34,718,279
8,258	2,500,619	65,252	2,565,871	130,826
41,631	786,402	.....	786,402	66,674
49,889	3,287,021	65,252	3,352,273	197,500
1,513,574	39,969,125	208,029	40,177,154	2,589,573
2,783,940	386,869,306	55,598,650	442,467,956	37,505,352

## Summary of Sales and Retirements during 1960

Charged to operations.....	\$ 6,161
Charged to accumulated depreciation.....	1,492,853
Proceeds from sales.....	1,284,926
	<u>\$ 2,783,940</u>

## NORTHERN ONTARIO

## Accumulated Depreciation, December 31, 1960

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1960 . .	\$ 38,224,194	\$ 7,153,217	\$ 633,901	\$ 46,011,312
Add:				
Interest at 3% per annum on accumulated depreciation on plant not fully depre- ciated . . . . .	1,042,876	211,552	9,100	1,263,528
Provision in the year				
—direct . . . . .	2,909,229	1,102,050		4,011,279
—indirect . . . . .	327		102,438	102,765
Adjustments re transfer of equipment . . . . .	5,474	4,580	10,054	
Other adjustments . . . . .	111,004	621	2,544	114,169
	42,282,156	8,462,860	758,037	51,503,053
Deduct:				
Cost of fixed assets retired less proceeds from sales . .	1,076,612	390,497	25,744	1,492,853
Excess or <i>deficiency</i> of re- moval costs over salvage recoveries on assets retired	99,124	25,501		73,623
	1,175,736	364,996	25,744	1,566,476
Balances at December 31, 1960	41,106,420	8,097,864	732,293	49,936,577

## Frequency Standardization Account, December 31, 1960

Balance at debit at January 1, 1960 . . . . .	\$ 3,583,659
Expenditures for frequency standardization work completed during year . . . . .	2,242
	\$ 3,585,901
Less portion of cost charged to cost of power for the year . . . . .	140,038
Balance at debit at December 31, 1960 . . . . .	\$ 3,445,863

## Exchange Discount (Net) on Funded Debt, December 31, 1960

	Discount	Premium	Net discount
Exchange discount and premium on funded debt issued in United States funds:			
Balances at December 31, 1960—No changes during year . . . . .	\$ 711,656	\$ 176,489	\$ 535,167



## PROPERTIES

## Reserve for Stabilization of Rates and Contingencies, December 31, 1960

	Power System	Rural Power District	Sub-total	Portion of reserve earmarked for special purposes		Total
				Cost-contract municipalities in the former Thunder Bay System	Nuclear research	
	\$	\$	\$	\$	\$	\$
Balances at January 1, 1960.	16,420,369	320,666	16,741,035	2,111,558	76,966	18,929,559
Add:						
Interest for year on reserve balances.....	637,837	12,483	650,320	82,199	2,855	735,374
Provision in the year.....					92,480	92,480
Profit on sale of investments, net.....	45,808		45,808			45,808
	17,104,014	333,149	17,437,163	2,193,757	172,301	19,803,221
Deduct:						
Expenditures during year..					14,149	14,149
Withdrawal in the year applied in reduction of cost of power.....				465,170		465,170
				465,170	14,149	479,319
Balances at December 31, 1960.....	17,104,014	333,149	17,437,163	1,728,587	158,152	19,323,902

## Sinking Fund Reserve, December 31, 1960

	Province of Ontario			Municipalities supplied with power at cost	Total
	40-year basis	Prepaid sinking funds	Total	40-year basis	
	\$	\$	\$	\$	\$
Balances at January 1, 1960...	37,230,894	12,926,197	50,157,091	13,275,645	63,432,736
Add:					
Interest at 4% per annum on reserve balances.....	1,489,237	517,046	2,006,283	531,027	2,537,310
Provision in the year:					
—direct.....	3,204,151		3,204,151	524,087	3,728,238
—indirect.....	26,535		26,535		26,535
	41,950,817	13,443,243	55,394,060	14,330,759	69,724,819
Deduct credits resulting from prepaid and matured sinking funds (see note):					
Interest.....	17,318	517,048	534,366		534,366
Principal.....	4,559	185,158	189,717		189,717
	21,877	702,206	724,083		724,083
Balances at December 31, 1960	41,928,940	12,741,037	54,669,977	14,330,759	69,000,736

NOTE: The matured sinking funds at January 1, 1960 amounted to \$432,936.

NORTHERN ONTARIO  
STATEMENT OF THE ALLOCATION  
for the Year

Municipalities supplied with power at cost	Power and energy supplied during year (principal bases of cost allocation)		Cost of	
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Provision for nuclear research (Note 3)
	kw	megawatt- hours	\$	\$
Atikokan Twp.....	3,998.5	23,141.5	183,548	388
Cache Bay.....	532.2	1,474.5	18,736	38
Capreol.....	1,675.7	8,588.7	66,264	150
Cochrane.....	2,542.2	13,396.8	82,242	232
Coniston.....	185.3	979.9	6,667	17
Dryden.....	2,334.0	14,369.0	109,018	233
Espanola.....	645.3	3,091.2	22,402	56
Fort William.....	32,896.1	211,144.0	1,306,142	3,361
Kapuskasing.....	3,660.9	17,142.2	125,641	317
Larder Lake Twp.....	841.1	4,320.6	35,736	75
Latchford.....	170.7	730.8	6,676	15
Massey.....	125.8	651.0	5,601	11
McGarry.....	906.6	4,393.2	34,685	80
Nipigon Twp.....	1,451.2	8,010.1	58,962	138
North Bay.....	14,097.3	78,166.1	512,017	1,313
Port Arthur.....	39,956.2	208,227.1	1,490,412	3,693
Red Rock.....	803.2	4,056.0	30,378	73
Schreiber Twp.....	1,148.6	6,414.2	44,301	110
Sturgeon Falls.....	2,307.5	11,546.1	87,064	205
Sudbury.....	13,053.9	70,645.2	490,996	1,203
Terrace Bay.....	1,273.1	8,009.6	50,231	129
Thessalon.....	634.2	3,524.0	26,753	59
Webbwood.....	42.2	186.3	1,642	3
West Ferris Twp.....	667.9	3,390.0	24,287	60
Total—Municipalities.....	125,949.7	705,598.1	4,820,401	11,959

## PROPERTIES

## OF THE COST OF PRIMARY POWER

Ended December 31, 1960

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance <i>credited</i> or charged	Annual rates on a kilowatt basis	
Withdrawal from stabilization of rates reserve (Note 4)	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
.....	183,936	188,905.55	4,969.55	47.24	46.00
.....	18,774	21,287.67	2,513.67	40.00	35.28
.....	66,414	72,892.97	6,478.97	43.50	39.63
.....	82,474	94,062.65	11,588.65	37.00	32.44
.....	6,684	7,336.23	652.23	39.60	36.07
.....	109,251	112,980.77	3,729.77	48.41	46.81
.....	22,458	25,811.00	3,353.00	40.00	34.80
197,376	1,112,127	1,102,018.79	10,108.21	33.50	33.81
.....	125,958	131,793.90	5,835.90	36.00	34.41
.....	35,811	37,009.51	1,198.51	44.00	42.58
.....	6,691	7,337.97	646.97	43.00	39.20
.....	5,612	6,069.45	457.45	48.25	44.61
.....	34,765	38,982.73	4,217.73	43.00	38.35
8,707	50,393	50,065.85	327.15	34.50	34.73
.....	513,330	542,744.46	29,414.46	38.50	36.41
239,737	1,254,368	1,258,620.85	4,252.85	31.50	31.39
4,819	25,632	25,783.54	151.54	32.10	31.91
6,892	37,519	37,903.55	384.55	33.00	32.66
.....	87,269	94,607.50	7,338.50	41.00	37.82
.....	492,199	502,576.75	10,377.75	38.50	37.71
7,639	42,721	42,011.49	709.51	33.00	33.56
.....	26,812	29,489.94	2,677.94	46.50	42.28
.....	1,645	1,806.84	161.84	42.85	38.98
.....	24,347	27,150.81	2,803.81	40.65	36.45
465,170	4,367,190	4,459,250.77	92,060.77	.....	.....



NORTHERN ONTARIO  
Summary of the Allocation  
for the Year

	Power and energy supplied during year (principal bases of cost allocation)		Cost of	
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges (Note 1)	Frequency standardi- zation (Note 2)
	kw	megawatt- hours	\$	\$
Municipalities .....	125,949.7	705,598.1	4,820,401	.....
Province of Ontario:				
Rural Power District .....	64,003.4	342,317.8	6,880,762	24,973
Other customers .....	730,123.8	4,810,217.8	29,455,790	291,915
Secondary customers (Note 1) .....	.....	709,038.3	.....	.....
Total—Province of Ontario .....	794,127.2	5,861,573.9	36,336,552	316,888
GRAND TOTAL .....	920,076.9	6,567,172.0	41,156,953	316,888

NOTES

1. The total of \$41,156,953 shown under the heading "Power purchased, operating costs, and fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased .....	\$ 480,206
Operation, maintenance, and administrative expenses .....	15,542,162
Interest .....	14,000,013
Depreciation .....	4,011,279
Sinking fund provision .....	3,728,238
Interchange of power with Southern Ontario System (1,357,163 megawatt-hours) .....	4,503,699
Sale of secondary energy .....	1,108,644
	<u>\$ 41,156,953</u>

The method used in 1959 of allocating the cost of power supplied to each customer was followed in 1960 except that high-voltage transmission costs in the Northwestern Division (other than those associated with certain radial lines serving specific customers) were allocated on a demand basis to all customers in the Division, whereas in 1959 approximately 40 per cent of these costs were so allocated, the remainder being segregated by district and allocated on a demand basis to customers within each district.

## PROPERTIES

## of the Cost of Primary Power

Ended December 31, 1960

primary power				Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged
Provision for nuclear research (Note 3)	Credit resulting from prepaid and matured sinking funds	Withdrawal from stabilization of rates reserve (Note 4)	Total cost of primary power		
\$ 11,959	\$ .....	\$ 465,170	\$ 4,367,190	\$ 4,459,250.77	\$ 92,060.77
5,895	.....	.....	6,911,630	6,483,615.04	428,014.96
74,626	724,083	.....	29,098,248	29,161,256.11	63,008.11
.....	.....	.....	.....	.....	.....
80,521	724,083	.....	36,009,878	35,644,871.15	365,006.85
92,480	724,083	465,170	40,377,068	40,104,121.92	272,946.08

2. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest .....	\$ 176,850
Portion of cost written off .....	140,038
	<u>\$ 316,888</u>

This represents a charge of 40 cents per kilowatt on the average monthly peak load supplied to all customers served on behalf of the Province of Ontario.

3. The provision of \$92,480 for nuclear research was charged to all customers in the Northern Ontario Properties on the basis of 50 per cent on the quantity of energy supplied and 50 per cent on average monthly peak loads. It represents the Northern Ontario Properties' share of a total provision of \$500,000 charged proportionally on the basis of the average monthly peak loads in the Southern Ontario System and the Northern Ontario Properties.

4. The withdrawal of \$465,170 from the stabilization of rates reserve is equivalent to \$6 per kilowatt on the average monthly peak load of cost-contract municipalities formerly served by the Thunder Bay System. This amount was charged to that portion of the reserve held specifically for those municipalities.

## NORTHERN ONTARIO PROPERTIES

## STATEMENT OF SINKING FUND EQUITY

as at December 31, 1960

Municipality	Net amount paid as part of cost of power by each municipality, and other sinking funds provided out of revenues of the system and interest allowed		
	Balance at January 1, 1960	Net provision and interest credited during year	Balance at December 31, 1960
	\$	\$	\$
Atikokan Twp. ....	58,529.62	24,736.18	83,265.80
Cache Bay .....	652.35	1,373.09	2,025.44
Capreol .....	1,553.64	4,796.15	6,349.79
Cochrane .....	1,933.95	5,529.36	7,463.31
Coniston .....	.....	458.00	458.00
Dryden .....	60,776.50	15,760.06	76,536.56
Espanola .....	.....	1,544.00	1,544.00
Fort William .....	4,550,221.06	350,470.84	4,900,691.90
Kapuskasing .....	3,556.04	8,745.24	12,301.28
Larder Lake Twp. ....	878.33	2,629.13	3,507.46
Latchford .....	112.52	477.50	590.02
Massey .....	.....	412.00	412.00
McGarry .....	848.50	2,493.94	3,342.44
Nipigon Twp. ....	90,015.82	10,968.63	100,984.45
North Bay .....	14,385.41	35,680.42	50,065.83
Port Arthur .....	8,345,046.81	523,479.87	8,868,526.68
Red Rock .....	33,569.63	4,906.79	38,476.42
Schreiber Twp. ....	41,821.07	7,252.84	49,073.91
Sturgeon Falls .....	2,338.16	6,196.53	8,534.69
Sudbury .....	.....	34,228.00	34,228.00
Terrace Bay .....	68,704.16	9,200.17	77,904.33
Thessalon .....	702.30	1,964.09	2,666.39
Webbwood .....	.....	116.00	116.00
West Ferris Twp. ....	.....	1,694.00	1,694.00
Total—Municipalities...	13,275,645.87	1,055,112.83	14,330,758.70
Province of Ontario .....	50,157,090.39	4,512,886.96	54,669,977.35
GRAND TOTAL .....	63,432,736.26	5,567,999.79 (see note)	69,000,736.05

NOTE: The net provision and interest credited during the year consist of the following amounts shown in the Statement of the Sinking Fund Reserve:

Interest .....	\$ 2,537,309.45
Provision—direct .....	3,728,238.00
—indirect .....	26,535.00
	\$ 6,292,082.45
Less credits resulting from prepaid and matured sinking funds...	724,082.66
	\$ 5,567,999.79



## APPENDIX III—RURAL

**P**OWER is delivered in wholesale quantities by the Commission to 100 rural operating areas in the Rural Power District. Within the areas, retail customers are supplied under the following six classes of service: farm, hamlet residential, rural residential, commercial, summer, and industrial power. The description of these classes of service and the rates applicable to them at December 31, 1960 are included in this appendix.

### **Description of Main Classes of Service**

Farm service means service rendered to a property used for the production of food or industrial crops. It provides for the electrical supply of all farm buildings and equipment located on a farm and used for farm purposes, including equipment required for processing the products of that farm. Service may be supplied under one farm contract to all dwellings or separate domestic establishments located on the farm and occupied by persons engaged in its operation. Additional dwellings or domestic establishments located on a farm property and occupied by persons otherwise engaged are classed as residential service.

Small properties of thirty acres and less are classified as residential service unless special circumstances warrant a classification as farm service.

Hamlet residential service is supplied to all domestic establishments in built-up areas where there are six or more customers in any quarter-mile section of road or street.

Rural residential service is supplied to isolated domestic establishments served as part of a rural operating area.

Commercial service applies to a wide variety of business or community establishments such as hotels, offices, stores, churches, schools, or small manufacturing and processing plants. Sign and display lighting is included.

Summer service is applicable to residential properties normally used only during the summer months.

Industrial power service is 3-phase service to such power users as creameries, cheese factories, chopping mills, and other industrial establishments.

#### **Rural Rate Structure**

Rural rates in effect throughout the Province are given in the accompanying tables. They are quoted on a monthly basis, except for summer service, which is quoted on an annual basis. Each contract within each class of service has a rating, and the energy used is billed on the basis of a three-step energy rate, except hamlet residential service which has a four-step energy rate, the bill being subject to a monthly minimum, or with respect to summer service, to an annual fixed charge. The number of kilowatt-hours billed at the first and second energy rates and the amount of the minimum monthly bill, or the annual fixed charge, depend on the contract rating. For all contracts with a demand rating (FD, CD, and Industrial Power) these aspects of the bill are based on measured demand and are subject to minima related to demands established in previous billing periods.

For industrial power service there are eight different schedules. These are numbered in the following table. The alphabetical list of the 100 rural operating areas on page 150 indicates the schedule number of the power service rate applicable to each area, as at December 31, 1960.







## Rural Power District

### RATES AND TYPICAL BILLS FOR ELECTRICAL SERVICE

as at December 31, 1960

*Rates are quoted on a monthly basis for all services except summer service, which are quoted on an annual basis. All are subject to 10% prompt payment discount.*

Class and rating	Number of kilowatt-hours per month billed at uniform kwh rate shown				Minimum bill per month (gross)	Net monthly bill for		
	4.5¢	2.6¢	1.1¢	1.5¢		100 kwh	300 kwh	500 kwh
<b>Farm</b>					\$	\$	\$	\$
F35.....	60	180	....	All additional	2.25	3.37	7.45	10.15
F50.....	100	300	....	"	3.75	4.05	8.73	12.42
FD.....	10*	30*	....	"	0.40*	....	8.73†	12.42†
<b>Hamlet Residential</b>								
H20 (see note)....	60	80	500	All additional	1.67	3.37	5.89	7.87
H35.....	60	180	500	"	2.25	3.37	7.24	9.22
<b>Rural Residential</b>								
R20 (see note)....	60	80	....	All additional	1.67	3.37	6.46	9.16
R35.....	60	180	....	"	2.25	3.37	7.45	10.15
<b>Commercial</b>								
C20 (see note)....	60	120	....	All additional	1.50	3.37	6.86	9.56
C35.....	90	180	....	"	2.25	3.88	8.26	10.96
C50.....	150	300	....	"	3.75	4.05	9.58	13.77
CD.....	15*	30*	....	"	0.40*	....	9.58†	13.77†
						Net annual bill for		
<b>Summer (on annual basis)</b>						500 kwh	750 kwh	1,000 kwh
S.....	225\$	675\$	....	All additional	44.44†\$	\$ 40.00	\$ 41.40	\$ 46.26

\$Per year

†Includes annual fixed charge of \$22.22

\*Per kw of demand

†Calculated on basis of minimum demand of 10 kw

NOTE—The H20, R20, and C20 rates were discontinued as of January 1, 1959 except for existing 2-wire services at that date.

### Industrial Power

Schedule	No. of kwh in first block	No. of kwh in second block	Demand rate per kw	Energy rate per kwh for			Net monthly bill for use of 1 kw of demand		
				First block of kwh	Second block of kwh	All additional kwh	100 hours	200 hours	300 hours
			\$	¢	¢	¢	\$	\$	\$
1.....	50*	50*	1.35	2.3	1.5	0.33	2.92	3.22	3.52
2.....	50*	50*	1.35	2.6	1.7	0.33	3.15	3.45	3.74
3.....	50*	50*	1.35	2.8	1.8	0.33	3.28	3.58	3.88
4.....	50*	50*	1.35	3.1	2.0	0.33	3.51	3.81	4.10
5.....	50*	50*	1.35	3.4	2.2	0.33	3.73	4.03	4.33
6.....	50*	50*	1.35	3.7	2.4	0.33	3.96	4.26	4.55
7.....	50*	50*	1.35	4.0	2.6	0.33	4.18	4.48	4.78
8.....	50*	50*	1.35	4.6	3.0	0.33	4.63	4.93	5.23

\* Per kw of demand

# Rural Operating Areas and Industrial Power Service Schedules in Effect

Rural operating area	Schedule	Rural operating area	Schedule	Rural operating area	Schedule
Algoma.....	6	Geraldton.....	8	Picton.....	5
Alliston.....	5	Guelph.....	4	Plantagenet.....	4
Arnprior.....	4	Huntsville.....	5	Port Arthur.....	5
Atikokan.....	8	Kapuskasing.....	6	Richmond Hill.....	4
Aylmer.....	5	Kenora.....	8	Ridgetown.....	6
Bala.....	4	Kingston.....	4	St. Catharines.....	3
Bancroft.....	7	Kirkland Lake.....	6	St. Thomas.....	5
Barrie.....	5	Kitchener.....	4	Sarnia.....	5
Beachville.....	4	Lakefield.....	4	Shelburne.....	5
Beamsville.....	4	Lancaster.....	4	Simcoe.....	4
Belleville.....	4	Listowel.....	4	Stayner.....	4
Blenheim.....	5	London.....	4	Stoney Creek.....	2
Bowmanville.....	4	Lucan.....	5	Caledonia Section.....	4
Bracebridge.....	4	Manitoulin.....	8	Stratford.....	4
Brampton.....	4	Markdale.....	4	Strathroy.....	5
Brantford.....	4	Markham.....	4	Sudbury.....	6
Brockville.....	4	Matheson.....	6	Sutton.....	5
Cannington.....	5	Merlin.....	6	Terrace Bay.....	7
Cayuga.....	6	Merrickville.....	4	Tillsonburg.....	4
Chatham.....	4	Minden.....	6	Timmins.....	6
Clinton.....	5	Mitchell.....	5	Tweed.....	5
Cobden.....	4	Napanee.....	4	Uxbridge.....	5
Cobourg.....	4	New Liskeard.....	6	Vankleek Hill.....	4
Delta.....	4	North Bay.....	6	Walkerton.....	5
Dorchester.....	5	Norwood.....	5	Wallaceburg.....	5
Dryden.....	8	Oil Springs.....	6	Warren.....	6
Dundas.....	4	Orangeville.....	6	Welland.....	1
Dunnville.....	5	Orillia.....	3	West Lorne.....	6
Elmira.....	4	Oshawa.....	4	Winchester.....	4
Essex.....	5	Ottawa.....	2	Wingham.....	5
Exeter.....	5	Owen Sound.....	5	Woodbridge.....	5
Fenelon Falls.....	5	Parry Sound.....	5		
Forest.....	6	Penetanguishene.....	5		
Fort Frances.....	8	Perth.....	4		
Frankford.....	4	Peterborough.....	1		



**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1960**

Rural operating areas by regions	Miles of primary line	Number of customers							Total
		Farm	Residential		Com- mercial	Summer		Power	
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM									
WESTERN									
Aylmer . . . . .	336.68	1,589	216	1,024	234	11	137	9	3,220
Beachville . . . . .	498.86	1,843	177	1,229	291	5	29	20	3,594
Blenheim . . . . .	141.72	657	148	444	124	13	255	9	1,650
Chatham . . . . .	311.61	1,357	364	940	239			13	2,913
Dorchester . . . . .	258.75	1,058	210	853	191		1	17	2,330
Essex . . . . .	924.81	5,027	482	5,177	807	99	3,382	128	15,102
Exeter . . . . .	274.66	1,219	49	362	136	10	501	13	2,290
Forest . . . . .	339.71	1,406	88	243	140	51	1,068	7	3,003
London . . . . .	416.39	1,150	208	15,343	1,023		32	177	17,933
Lucan . . . . .	379.27	1,451	82	170	112			6	1,821
Merlin . . . . .	395.29	1,643	198	419	244	3	396	18	2,921
Oil Springs . . . . .	362.74	1,485	74	256	216			27	2,058
Ridgetown . . . . .	370.91	1,415	166	489	206	28	640	12	2,956
St. Thomas . . . . .	316.71	1,228	242	2,031	280		14	13	3,808
Sarnia . . . . .	288.30	1,197	149	2,691	344	11	489	17	4,898
Strathroy . . . . .	522.57	1,965	264	753	261			11	3,254
Tillsonburg . . . . .	462.98	1,957	392	1,164	337			29	3,879
Wallaceburg . . . . .	469.96	1,801	330	1,368	362	1	362	21	4,245
West Lorne . . . . .	500.90	1,827	111	275	211		65	14	2,503
Total . . . . .	7,572.82	31,275	3,950	35,231	5,758	232	7,371	561	84,378
WEST CENTRAL									
Brantford . . . . .	557.80	2,218	480	918	343	4	13	9	3,985
Cayuga . . . . .	531.96	1,993	282	845	290	23	1,617	29	5,079
Clinton . . . . .	671.32	2,590	136	858	349	6	855	11	4,805
Dundas . . . . .	375.05	1,746	293	3,951	349		3	42	6,384
Elmira . . . . .	498.22	1,677	219	1,215	306	15	286	23	3,741
Guelph . . . . .	394.43	1,346	312	1,526	247		17	11	3,459
Kitchener . . . . .	469.99	1,627	265	2,326	408		172	47	4,845
Listowel . . . . .	629.59	2,658	107	627	330	2	74	17	3,815
Mitchell . . . . .	330.99	1,459	52	455	164			10	2,140
Simcoe . . . . .	801.05	3,477	946	2,434	506	50	1,668	25	9,106
Stoney Creek . . . . .	276.16	1,005	224	4,938	445	1	130	56	6,799
Stratford . . . . .	513.12	2,177	165	795	289			16	3,442
Total . . . . .	6,049.68	23,973	3,481	20,888	4,026	101	4,835	296	57,600

**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1960**

Rural operating areas by regions	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM —Continued									
NIAGARA									
Beamsville.....	375.99	2,053	269	2,504	429	2	71	47	5,375
Dunnville.....	278.99	1,081	275	731	231	55	1,257	15	3,645
St. Catharines..	298.20	1,489	202	10,198	735	3	242	89	12,958
Welland.....	475.93	1,369	485	7,872	837	30	822	95	11,510
Total.....	1,429.11	5,992	1,231	21,305	2,232	90	2,392	246	33,488
CENTRAL									
Bowmanville...	321.12	972	271	1,031	222	27	106	13	2,642
Brampton.....	557.45	1,779	847	2,595	422	19	183	86	5,931
Markham.....	300.20	976	410	4,331	478	29	483	40	6,747
Oshawa.....	286.02	842	390	2,948	360	11	188	36	4,775
Richmond Hill..	313.38	951	271	7,423	708	4	188	87	9,632
Sutton.....	353.74	1,007	305	3,035	371	110	3,266	22	8,116
Woodbridge....	412.14	1,274	686	3,221	602	.....	77	96	5,956
Total.....	2,544.05	7,801	3,180	24,584	3,163	200	4,491	380	43,799
GEORGIAN BAY									
Alliston.....	498.77	1,968	293	844	244	2	34	16	3,401
Bala.....	247.48	10	156	566	108	94	2,682	3	3,619
Barrie.....	515.47	1,453	554	2,597	440	87	3,731	23	8,885
Bracebridge....	510.80	309	472	1,055	228	125	3,401	8	5,598
Cannington....	498.21	1,210	276	924	250	42	3,112	12	5,826
Huntsville.....	643.70	659	560	1,357	336	175	2,824	11	5,922
Markdale.....	656.85	2,254	185	756	321	13	665	11	4,205
Orangeville....	524.84	1,404	433	1,295	355	9	475	15	3,986
Orillia.....	605.25	1,000	474	2,412	463	119	4,045	17	8,530
Owen Sound...	949.27	2,514	342	1,585	547	154	3,597	15	8,754
Parry Sound...	474.57	212	439	1,069	264	136	1,569	14	3,703
Penetanguishene	568.18	970	360	1,017	247	155	5,718	7	8,474
Shelburne.....	725.81	2,393	189	244	230	.....	69	.....	3,125
Stayner.....	367.23	1,179	146	1,131	249	230	3,410	3	6,348
Uxbridge.....	508.60	1,568	310	1,042	289	26	1,619	14	4,868
Walkerton.....	856.40	3,163	268	802	406	20	769	15	5,443
Wingham.....	702.06	2,649	85	668	338	28	799	11	4,578
Total.....	9,853.49	24,915	5,542	19,364	5,315	1,415	38,519	195	95,265

Rural Power District  
MILES OF LINE, NUMBER OF CUSTOMERS  
as at December 31, 1960

Rural operating areas by regions	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM —Concluded									
EAST CENTRAL									
Bancroft . . . . .	503.93	611	302	1,221	226	71	1,426	6	3,863
Belleville . . . . .	214.43	793	209	1,377	245	3	48	16	2,691
Cobourg . . . . .	601.61	1,693	491	1,449	340	74	1,044	15	5,106
Fenelon Falls . .	543.40	1,054	120*	839	276	152	3,719	14	6,174
Frankford . . . . .	588.44	1,990	409	1,405	351	36	530	12	4,733
Kingston . . . . .	884.68	2,010	534	4,589	720	46	1,714	48	9,661
Lakefield . . . . .	466.79	558	219	669	193	97	3,335	1	5,072
Minden . . . . .	520.78	352	311	1,334	342	148	3,723	4	6,214
Napanee . . . . .	579.63	1,928	301	1,242	402	38	458	12	4,381
Norwood . . . . .	392.83	952	172	419	139	38	1,306	4	3,030
Peterborough . .	671.76	1,789	385	2,590	443	72	1,428	30	6,737
Picton . . . . .	474.45	1,746	387	1,458	303	58	799	14	4,765
Tweed . . . . .	621.91	1,152	575	781	329	123	949	3	3,912
Total . . . . .	7,064.64	16,628	4,415	19,373	4,309	956	20,479	179	66,339
EASTERN									
Arnprior . . . . .	443.61	1,018	217	1,131	295	40	1,458	22	4,181
Brockville . . . .	612.50	2,093	488	2,091	469	37	996	29	6,203
Cobden . . . . .	1,245.18	2,522	651	3,535	823	117	1,351	34	9,033
Delta . . . . .	462.43	1,049	255	615	260	47	1,389	7	3,622
Lancaster . . . . .	607.36	2,250	488	1,399	447	15	428	35	5,062
Merrickville . . .	296.90	800	167	589	150	1	245	7	1,959
Ottawa . . . . .	786.76	2,404	886	9,312	846	10	401	96	13,955
Perth . . . . .	870.44	1,958	390	725	375	50	2,026	10	5,534
Plantagenet . . .	382.33	1,554	183	833	325	3	103	25	3,026
Vankleek Hill . .	223.70	925	92	524	191	10	80	12	1,834
Winchester . . . .	834.13	3,327	328	1,665	549	2	71	43	5,985
Total . . . . .	6,765.34	19,900	4,145	22,419	4,730	332	8,548	320	60,394

**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1960**

Rural operating areas by regions	Miles of primary line	Number of customers							Total
		Residential			Com- mercial	Summer		Power	
		Farm	Rural	Hamlet		Com- mercial	Other		
NORTHERN ONTARIO PROPERTIES									
NORTHEASTERN									
Algoma .....	325.39	380	169	3,971	643	44	293	75	5,575
Kapuskasing...	246.81	562	219	2,283	289	11	270	16	3,650
Kirkland Lake...	118.03	92	76	236	80	19	349	3	855
Manitoulin .....	591.62	844	276	1,483	519	82	809	26	4,039
Matheson .....	496.56	941	284	668	225	9	318	6	2,451
New Liskeard..	635.43	1,247	411	1,058	368	43	428	18	3,573
North Bay .....	826.78	1,098	782	3,539	571	143	1,320	45	7,498
Sudbury .....	591.84	784	910	6,738	690	10	1,226	39	10,397
Timmins .....	83.09	147	28	678	76	1	85	12	1,027
Warren .....	510.66	987	327	1,278	376	106	869	13	3,956
Total .....	4,426.21	7,082	3,482	21,932	3,837	468	5,967	253	43,021
NORTHWESTERN									
Atikokan .....	4.80		5	57	15	1		2	80
Dryden .....	338.25	398	378	778	248	50	321	11	2,184
Fort Frances...	541.55	911	300	525	292	42	109	4	2,183
Geraldton .....	134.81		15	645	215	8	16	19	918
Kenora .....	269.94	183	294	650	179	130	912	15	2,363
Port Arthur....	872.31	1,724	926	2,263	435	14	1,225	25	6,612
Terrace Bay...	29.01		1	556	93	1	11	5	667
Total .....	2,190.67	3,216	1,919	5,474	1,477	246	2,594	81	15,007

**SUMMARY—MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1960**

System and Region	Miles of primary line	Number of customers							
		Residential			Com- mercial	Summer		Power	Total
		Farm	Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM									
Western.....	7,572.82	31,275	3,950	35,231	5,758	232	7,371	561	84,378
West Central...	6,049.68	23,973	3,481	20,888	4,026	101	4,835	296	57,600
Niagara.....	1,429.11	5,992	1,231	21,305	2,232	90	2,392	246	33,488
Central.....	2,544.05	7,801	3,180	24,584	3,163	200	4,491	380	43,799
Georgian Bay...	9,853.49	24,915	5,542	19,364	5,315	1,415	38,519	195	95,265
East Central...	7,064.64	16,628	4,415	19,373	4,309	956	20,479	179	66,339
Eastern.....	6,765.34	19,900	4,145	22,419	4,730	332	8,548	320	60,394
Total.....	41,279.13	130,484	25,944	163,164	29,533	3,326	86,635	2,177	441,263
NORTHERN ONTARIO PROPERTIES									
Northeastern...	4,426.21	7,082	3,482	21,932	3,837	468	5,967	253	43,021
Northwestern...	2,190.67	3,216	1,919	5,474	1,477	246	2,594	81	15,007
Total.....	6,616.88	10,298	5,401	27,406	5,314	714	8,561	334	58,028
Total—Allsystems	47,896.01	140,782	31,345	190,570	34,847	4,040	95,196	2,511	499,291



## Rural Electrical Service 1951 - 1960

## CUSTOMERS, REVENUE, AND CONSUMPTION, BY CLASSES OF SERVICE

Class of service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	¢
*Farm.....	1951	8,097,710.92	408,001,270	123,434	286	1.98
	1952	9,017,321.17	465,813,826	129,451	307	1.94
	1953	11,053,487.41	507,669,118	133,522	322	2.18
	1954	12,207,502.58	558,217,490	136,013	345	2.19
	1955	12,915,852.58	593,811,741	138,648	360	2.18
	1956	13,671,336.65	642,704,082	139,289	385	2.13
	1957	14,386,097.14	685,873,991	140,604	408	2.10
	1958	15,159,553.04	739,105,332	140,343	439	2.05
	1959	16,122,453.84	804,044,121	140,892	477	2.01
	1960	16,688,958.79	850,192,892	140,782	503	1.96
*Hamlet & Rural Residential.....	1951	6,380,808.20	308,065,399	124,091	214	2.07
	1952	7,253,640.00	359,033,745	133,193	233	2.02
	1953	9,560,018.46	421,976,886	150,627	248	2.27
	1954	11,194,393.02	497,941,047	160,552	267	2.25
	1955	12,734,130.77	577,738,311	177,398	285	2.20
	1956	14,639,910.88	689,671,299	181,113	321	2.12
	1957	16,174,554.38	780,555,465	196,025	345	2.07
	1958	17,732,046.03	905,276,590	207,570	374	1.96
	1959	18,862,773.02	988,315,209	218,287	387	1.91
	1960	20,151,434.03	1,070,637,716	221,915	405	1.88
*Commercial..... (Including Summer Commercial)	1951	2,284,851.74	114,818,736	20,110	504	1.99
	1952	2,457,032.13	125,448,544	24,564	468	1.96
	1953	3,385,239.46	148,684,777	28,870	464	2.28
	1954	3,707,824.28	165,641,656	30,403	466	2.24
	1955	3,996,936.76	186,152,293	32,509	493	2.15
	1956	4,444,185.15	210,438,942	33,481	532	2.11
	1957	4,855,540.79	232,393,971	35,179	564	2.09
	1958	5,346,040.16	259,521,563	36,966	600	2.06
	1959	5,764,611.07	282,562,584	38,176	627	2.04
	1960	6,099,889.90	301,874,591	38,887	653	2.02
*Summer.....	1951	1,616,368.92	36,502,195	49,913	65	4.43
	1952	1,826,359.64	40,160,959	55,159	64	4.55
	1953	1,833,881.12	34,136,058	57,547	51	5.37
	1954	2,034,199.00	38,459,711	62,183	54	5.29
	1955	2,214,360.48	40,375,690	68,600	51	5.48
	1956	2,478,450.51	45,989,565	74,390	54	5.39
	1957	2,709,831.47	50,673,331	79,792	55	5.35
	1958	2,943,051.21	55,170,379	85,611	56	5.33
	1959	3,170,306.65	60,345,721	91,390	57	5.25
	1960	4,141,665.36	67,785,615	95,196	61	6.11
Industrial Power....	1951	1,562,608.29	87,692,082	1,058	7,067	1.78
	1952	1,799,924.89	102,608,301	1,170	7,676	1.75
	1953	2,147,899.48	121,310,479	1,289	8,222	1.77
	1954	2,545,737.21	148,176,508	1,466	8,964	1.72
	1955	2,934,852.81	171,202,169	1,681	9,067	1.71
	1956	3,402,416.31	207,252,224	1,782	9,975	1.64
	1957	3,732,252.41	225,748,793	2,011	9,920	1.65
	1958	4,410,317.84	278,005,882	2,113	11,235	1.59
	1959	4,612,172.64	287,458,107	2,325	10,795	1.60
	1960	5,017,774.81	325,416,458	2,511	11,215	1.54

\* Beginning in 1959, consumption for flat-rate water-heaters was estimated on the basis of 16.8 hours' daily use instead of 20 hours' daily use as previously. The data for previous years have been adjusted to the new basis.

## APPENDIX IV—LEGISLATIVE

**A**T the 1960 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced here in full. The short title of the Act is as follows:

*The Power Commission Amendment Act, 1960, Chapter 85.*

### ACT

#### CHAPTER 85

##### **An Act to amend The Power Commission Act**

*Assented to April 12th, 1960.*

*Session Prorogued April 12th, 1960.*

**H**ER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

R.S.O. 1950,  
c. 281, s. 17,  
re-enacted

**1.** Section 17 of *The Power Commission Act* is repealed and the following substituted therefor:

17. The Commission shall set apart annually as a sinking fund, <sup>Sinking fund</sup>

- (a) such sums as are received by the Commission from municipal corporations under clause c of section 74, and section 75, and, subject to subsection 2 of section 84, such sums as are appropriated by the Commission for sinking fund purposes out of the revenues received from the supply of power under section 68 to persons within the area of a municipal corporation that has contracted with the Commission for a supply of power at cost;
- (b) such sums as are appropriated by the Commission for sinking fund purposes out of the revenues received from the supply of power in rural power districts;
- (c) such sums as are appropriated by the Commission for sinking fund purposes for the repayment of any indebtedness incurred or assumed by the Commission in respect of the cost of administrative service buildings and equipment, and for the restoration of any reserve or other funds of the Commission utilized for the payment of the cost thereof.

2. Subsection 7 of section 20 of *The Power Commission Act* is <sup>R.S.O. 1950, c. 281, s. 20, amended</sup> amended by adding at the end thereof "and such fund may be invested in investments authorized by section 207 of *The Corporations Act, 1953* for joint stock insurance companies", so that the subsection shall read as follows:

- (7) The fund shall be maintained and administered by the Commission and the cost to the Commission of maintaining and administering it shall be deemed to be part of the cost of the administration of the Commission and shall be chargeable accordingly, and such fund may be invested in investments authorized by section 207 of *The Corporations Act, 1953*, <sup>Administration and investment of fund</sup> c. 19 <sup>1953, c. 19</sup> for joint stock insurance companies.

3. Section 23 of *The Power Commission Act* is repealed.

<sup>R.S.O. 1950, c. 281, s. 23, repealed</sup>

4.—(1) Subsection 5 of section 32 of *The Power Commission Act* <sup>R.S.O. 1950, c. 281, s. 32, subs. 5, re-enacted</sup> is repealed and the following substituted therefor:

- (5) The Lieutenant Governor in Council may from time to time <sup>Appointment and powers of board of valuation</sup> appoint a board of valuation consisting of as many members as he from time to time determines, one of whom shall be named chairman, who shall receive their reasonable and necessary travelling and other expenses and such fees as

may be fixed by the Lieutenant Governor in Council, and the same shall be paid by the Commission as part of its general administration expense, and, when no agreement is arrived at as to the amount of compensation to be paid to the owner, the board of valuation shall, as soon as conveniently may be after a request to them either from the owner or the Commission, secure from the Commission a description of the land, right or easement that the Commission requires or has taken from the owner and make such inquiries and inspection and procure such expert advice as they may think desirable and in accordance with subsection 3 fix and determine the compensation to be paid for such land, right or easement, or property damage, and notify by registered letter the owner and the Commission of such finding, and three members of the board of valuation shall form a quorum and be sufficient for the exercise of all the jurisdiction and powers of the board.

R.S.O. 1950,  
c. 281, s. 32,  
subs. 6,  
amended

(2) Subsection 6 of the said section 32 is amended by striking out "30" in the third line and inserting in lieu thereof "sixty" and by striking out "valuator" in the fourth line and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 32,  
subs. 7,  
amended

(3) Subsection 7 of the said section 32 is amended by striking out "valuator" in the first line and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 32,  
subs. 9,  
amended

(4) Subsection 9 of the said section 32 is amended by striking out "valuator" in the third and fifth lines respectively and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 32,  
subs. 10,  
amended

(5) Subsection 10 of the said section 32 is amended by striking out "valuator" in the fourth line and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 32,  
subs. 11,  
amended

(6) Subsection 11 of the said section 32, as amended by subsection 2 of section 3 of *The Power Commission Amendment Act, 1956*, is further amended by striking out "valuator" in the sixth line and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 35,  
subs. 2,  
amended

5. Subsection 2 of section 35 of *The Power Commission Act* is amended by striking out "valuator" in the fourth, fifth and tenth lines respectively and inserting in lieu thereof "board of valuation".

R.S.O. 1950,  
c. 281, s. 52,  
amended

6.—(1) Section 52 of *The Power Commission Act* is amended by inserting after "Ontario" in the eighth line "or the Deputy Provincial Treasurer", so that subsection 1 of the said section shall read as follows:



- (1) The Lieutenant Governor in Council is authorized, on such terms as may be approved by Order in Council, to agree to guarantee the payment of the principal and interest of any bonds, debentures and other securities issued by the Commission, and the form and manner of any such guarantee or guarantees shall be such as the Lieutenant Governor in Council may approve, and the guarantee or guarantees shall be signed by the Treasurer of Ontario or the Deputy Provincial Treasurer, or such other officer or officers as may be designated by the Lieutenant Governor in Council, and, upon being so signed, the Province of Ontario shall become liable for the payment of the principal and interest of the bonds, debentures and securities guaranteed, according to the tenor thereof, and the Lieutenant Governor in Council is authorized to make arrangements for supplying the money necessary to fulfil the requirements of the guarantee or guarantees, and to advance the amount necessary for that purpose, out of the public funds of the Province, and, in the hands of any holder of any such bonds, debentures or securities, any guarantee so signed shall be conclusive evidence that the terms of this section have been complied with.

Guaranteeing bonds of Commission

- (2) The said section 52 is further amended by adding thereto the following subsection:

R.S.O. 1950, c. 281, s. 52, amended

- (2) The signature of the Treasurer of Ontario or of the Deputy Provincial Treasurer or of such other officer or officers provided for in subsection 1 may be engraved, lithographed, printed or otherwise mechanically reproduced, and the mechanically-reproduced signature of any such person shall be deemed for all purposes the signature of such person and shall be binding upon the Province of Ontario notwithstanding that the person whose signature is so reproduced may not have held office at the date of the bonds, debentures or other securities or at the date of the delivery thereof and notwithstanding any change in any of the persons holding any such office between the time when any such signature is affixed and the date of delivery of the bonds, debentures or other securities.

Signatures may be mechanically reproduced

7. *The Power Commission Act* is amended by adding thereto the following section:

R.S.O. 1950, c. 281, amended

- 58a. Section 301 of *The Municipal Act* does not apply to any contract between the Commission and a municipal corporation for the supply of power.

R.S.O. 1950, c. 243, s. 301, not to apply

R.S.O. 1950,  
c. 281, s. 68,  
subs. 3,  
re-enacted

8. Subsection 3 of section 68 of *The Power Commission Act* is repealed and the following substituted therefor:

Application  
of net  
surplus

- (3) Any net surplus made by the Commission in supplying power under subsection 1 to persons within the areas of municipal corporations and police villages excluded from the Southern Ontario Rural Power District by subsection 2 of section 84 that have contracted with the Commission for the supply of power at cost shall be applied in reduction of the cost of power to such municipal corporations and police villages; and subject to subsection 3 of section 59a any net surplus made by the Commission in supplying power under subsection 1 to other persons shall be applied in reduction of the cost of power in rural power districts.

R.S.O. 1950,  
c. 281, s. 81  
(1958,  
c. 80, s. 2),  
amended

9. Section 81 of *The Power Commission Act*, as re-enacted by section 2 of *The Power Commission Amendment Act, 1958*, is amended by adding thereto the following subsection:

Power of  
township  
to extend  
application  
of street  
lighting  
agreement

- (5a) Where under this section a township has entered into a contract with the Commission for the lighting of streets in one or more areas, the township may from time to time, without petition and without the assent of the electors, pass a similar by-law to provide that the contract shall also apply to any other street lighting area or areas in the township.

R.S.O. 1950,  
c. 281, s. 84,  
subs. 2,  
re-enacted

10. Subsection 2 of section 84 of *The Power Commission Act* is repealed and the following substituted therefor:

Defining  
power  
districts

- (2) There shall be two rural power districts, namely,
- (a) the Northern Ontario Rural Power District comprising the Northeastern and Northwestern Regions as defined from time to time by the Commission; and
  - (b) the Southern Ontario Rural Power District comprising the remaining territory of Ontario,

and there shall be excluded from each of the rural power districts the areas of all municipal corporations and police villages that have contracted with the Commission for the supply of power at cost under section 58, 59, 63 or 66, or that hereafter so contract, except that all persons who are

supplied with power under section 68 and who are within the area of any such municipal corporation excluded from the Northern Ontario Rural Power District shall be deemed to be within the Northern Ontario Rural Power District.

**11.** This Act shall be deemed to have come into force on the 1st <sup>Commence-</sup>  
day of January, 1960. <sup>ment</sup>

**12.** This Act may be cited as *The Power Commission Amendment* <sup>Short title</sup>  
*Act, 1960.*

## ORDER IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order in Council.

### CITY

North Bay.....Jan. 7, 1960

### VILLAGE

Beachburg.....Nov. 10, 1960

### TOWNS

Cache Bay.....Jan. 5, 1960  
Capreol.....Mar. 29, 1960  
Cochrane.....Feb. 9, 1960  
Espanola.....Nov. 27, 1959  
Latchford.....Jan. 5, 1960  
Massey.....Oct. 21, 1960  
Thessalon.....Feb. 1, 1960  
Webbwood.....Nov. 23, 1960

### TOWNSHIPS

Larder Lake.....Feb. 23, 1960  
West Ferris.....Oct. 21, 1960

### IMPROVEMENT DISTRICT

McGarry.....Jan. 5, 1960

## CORPORATIONS

Agnico Mines Limited . . . . .	May 25, 1960
Aluminum Company of Canada, Limited . . . . .	Oct. 6, 1960
Avro Aircraft Limited . . . . .	Nov. 9, 1960
Beaver Wood Fibre Company Limited . . . . .	Mar. 29, 1960
Beaver Wood Fibre Company Limited . . . . .	Mar. 29, 1960
Brockville Chemicals Limited . . . . .	Aug. 31, 1960
Burlington Steel Company Limited . . . . .	Aug. 15, 1960
Canada Starch Company, Limited . . . . .	Nov. 9, 1960
Canadian Industries, Limited . . . . .	May 3, 1960
Canadian Johns-Manville Company Limited . . . . .	June 2, 1960
Canadian Niagara Power Company, Limited . . . . .	April 1, 1960
Consolidated Mosher Mines Limited . . . . .	Oct. 27, 1960
Consolidated Sand & Gravel, Limited . . . . .	May 12, 1960
Cyanamid of Canada Limited . . . . .	Aug. 31, 1960
Deer Horn Mines Limited . . . . .	May 10, 1960
Denison Mines Limited . . . . .	Aug. 24, 1960
Dominion Tar & Chemical Company . . . . .	June 2, 1960
Du Pont of Canada Limited . . . . .	Sept. 9, 1960
Exolon Company . . . . .	Mar. 18, 1960
Ford Motor Company of Canada, Limited . . . . .	Dec. 20, 1960
Glen Lawrence Construction Company . . . . .	Sept. 9, 1960
Hayes Steel Products Limited . . . . .	May 9, 1960
Imperial Oil Limited . . . . .	Jan. 12, 1960
Imperial Oil Limited . . . . .	Jan. 21, 1960
Kam-Kotia Porcupine Mines, Limited . . . . .	April 19, 1960
Lindsay Explorations Limited . . . . .	Oct. 3, 1960
National Harbours Board . . . . .	June 27, 1960
Neelon Steel Limited . . . . .	Dec. 2, 1960
Niagara Mohawk Power Corporation . . . . .	April 1, 1960
Norton Company . . . . .	Nov. 2, 1960
Orenda Engines Limited . . . . .	April 1, 1960
Pembroke Electric Light Company Limited . . . . .	Sept. 16, 1960
Pronto Uranium Mines Limited . . . . .	April 4, 1960
Silver-Miller Mines Limited . . . . .	Nov. 16, 1960
Sun-Canadian Pipe Line Company Limited . . . . .	Jan. 21, 1960
Sun-Canadian Pipe Line Company Limited . . . . .	Jan. 21, 1960
Young, H. G., Mines Limited . . . . .	June 7, 1960



## SUPPLEMENT

### MUNICIPAL ELECTRICAL SERVICE

**T**HIS supplementary section on service in the municipal systems brings together statistical information on retail service to customers served by the 354 municipal electrical utilities and the 28 Commission-owned local systems. The number of residential, commercial, and industrial power service customers so supplied increased by 42,801 during 1960 and at December 31 stood at 1,381,957.

The numbers in the various customer groups that contribute to this total reflect reclassifications of customers being made in conjunction with the introduction of new rate schedules. The purpose of these reclassifications is that certain industrial power customers, for example small processing companies such as dairies and bakeries, shall be classified as commercial service, and that commercial service customers with connected loads of less than 5 kilowatts may be billed under residential service. The table on page 164 provides some indication of the growth in residential, commercial, and industrial power service over a 10-year period. The statistical information relative to energy consumption and unit cost for these three main classes of service is reproduced in the graphs on page 165.

The revenues derived from street lighting are based on estimated consumption only (see table on page 96), and the revenue applicable to the municipal utilities is given in the analysis of revenue and expense that follows. In each of the operating statements of the utilities the revenue from street lighting is included in the amount shown for sales of electric energy. It can be derived for any utility by subtracting from the revenue shown in Statement "B" the sum of the revenues for the same utility shown in Statement "D".

## MUNICIPAL ELECTRICAL UTILITIES

Total revenues of the municipal electrical utilities during 1960 were \$189,320,571. Comparative figures for previous years are given in the table on page 170. The 1960 total revenues show an increase of 6.3 per cent over the total revenues for 1959.

The increase in total revenues was almost entirely due to increased revenues from the sale of electric energy, which amounted to \$186,599,701 and consisted of \$76,509,879 (41.0 per cent) from residential customers, \$40,310,556 (21.6 per cent) from commercial customers, \$63,805,494 (34.2 per cent) from industrial power customers, and \$5,973,772 (3.2 per cent) from street lighting service to

## Municipal Electrical Utilities and Local Systems

## CUSTOMERS, REVENUE, AND CONSUMPTION

1951 to 1960

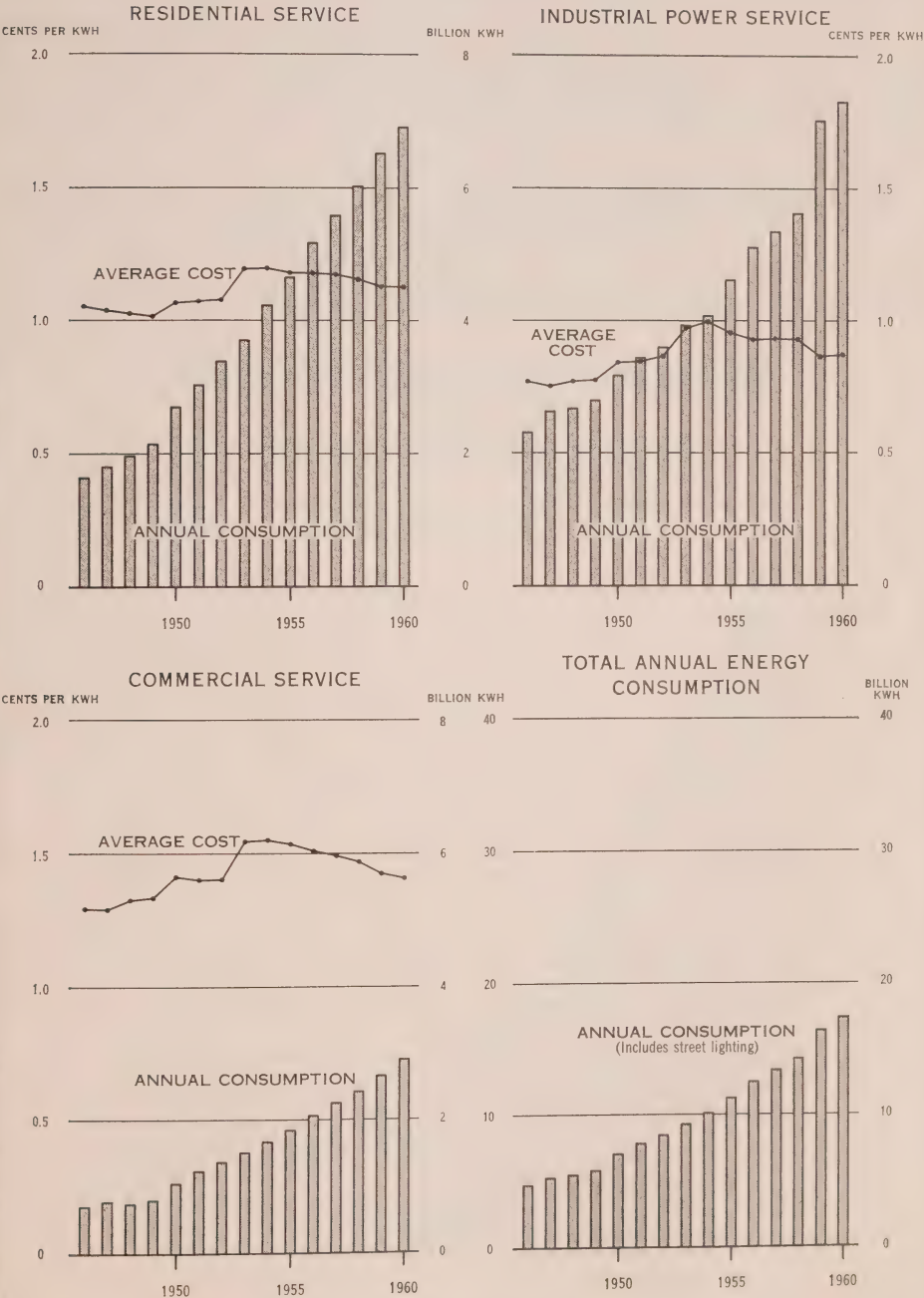
Service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	¢
Residential . . . . .	1951	32,905,664	3,065,257,438	800,033	319	1.07
	1952	36,811,115	3,411,685,705	836,802	340	1.08
	1953	44,647,668	3,734,160,562	877,323	355	1.20
	1954	50,833,346	4,246,511,375	930,674	380	1.20
	1955	55,241,247	4,667,789,930	970,829	401	1.18
	1956	61,234,494	5,191,581,628	1,031,482	419	1.18
	1957	65,842,103	5,602,672,756	1,072,868	435	1.18
	1958	69,804,608	6,036,470,489	1,139,061	442	1.16
	1959	73,955,229	6,540,969,291	1,194,878	456	1.13
	1960	78,337,615	6,944,659,090	1,234,903	469	1.13
Commercial . . . . .	1951	17,549,402	1,249,185,273	111,154	937	1.40
	1952	19,502,920	1,387,136,211	115,304	1,003	1.41
	1953	23,603,194	1,526,535,177	119,498	1,065	1.55
	1954	26,293,250	1,694,071,712	123,884	1,140	1.55
	1955	28,576,115	1,858,974,388	127,913	1,211	1.54
	1956	31,423,691	2,081,200,929	127,497*	1,360	1.51
	1957	33,901,487	2,270,913,902	124,757*	1,517	1.49
	1958	35,968,060	2,445,225,765	122,446*	1,664	1.47
	1959	38,079,501	2,669,327,226	120,733*	1,842	1.43
	1960	41,229,320	2,921,670,317	123,441*	1,972	1.41
Industrial Power. . . .	1951	29,353,071	3,459,742,798	19,370	14,884	0.85
	1952	31,403,227	3,619,518,306	20,055	15,040	0.87
	1953	38,482,884	3,948,124,809	20,885	15,753	0.98
	1954	40,855,075	4,089,513,923	21,671	15,726	1.00
	1955	44,270,882	4,637,527,118	22,237	17,379	0.96
	1956	47,808,610	5,140,704,025	22,809*	18,782	0.93
	1957	50,124,976	5,366,245,253	22,607*	19,781	0.93
	1958	52,741,979	5,651,743,390	23,077*	20,409	0.93
	1959	61,167,603	7,052,152,034	23,545*	24,960	0.87
	1960	64,057,506	7,326,683,025	23,613*	25,857	0.87

\* Normal year-to-year increases in number of customers are obscured in these years by reclassifications from commercial to residential and from industrial power to commercial service billing.

NOTE: Kwh consumption figures for residential and commercial services in the above table reflect the use of flat-rate water-heaters for a uniform average of 16.8 hours per day.

MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

ANNUAL ENERGY CONSUMPTION AND AVERAGE COST PER KILOWATT-HOUR

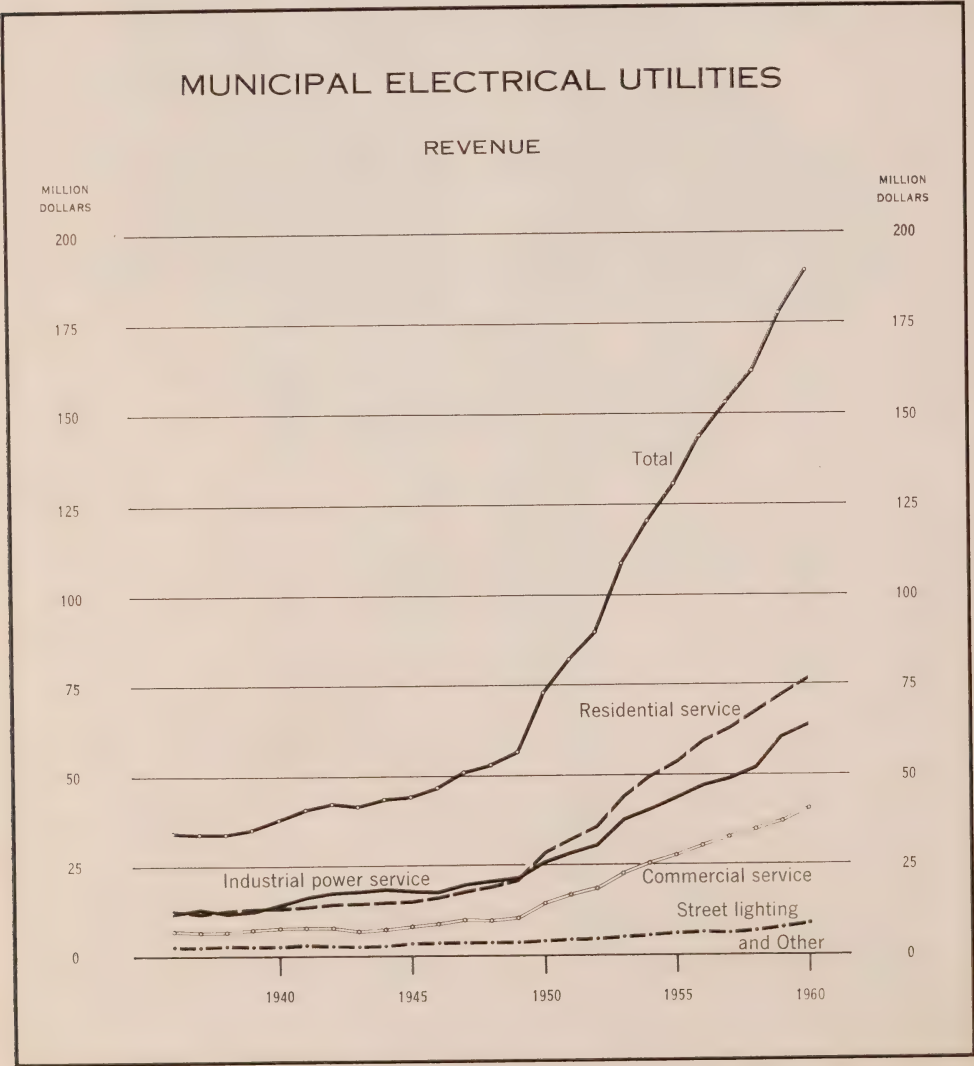


municipalities. Increases in revenue from residential and industrial power customers of 5.9 per cent and 4.8 per cent generally reflect corresponding increases in energy consumption so that the average cost per kilowatt-hour to the customer remained unchanged. Revenue from commercial customers increased by 8.4 per cent, or somewhat less than the increase in energy consumption, with the result that the average cost per kilowatt-hour to the customer declined.

Total expenses of \$175,423,661 were 9.2 per cent higher than in 1959, and this increase was only partially offset by the increase in revenues. The net income for 1960 was \$13,896,910, or 7.3 per cent of total revenue as compared with 9.8 per cent in 1959.

Summary of Financial Position

Total assets, after deducting accumulated depreciation, were \$645,644,451, of which \$261,101,650 had been contributed through the cost of power for the



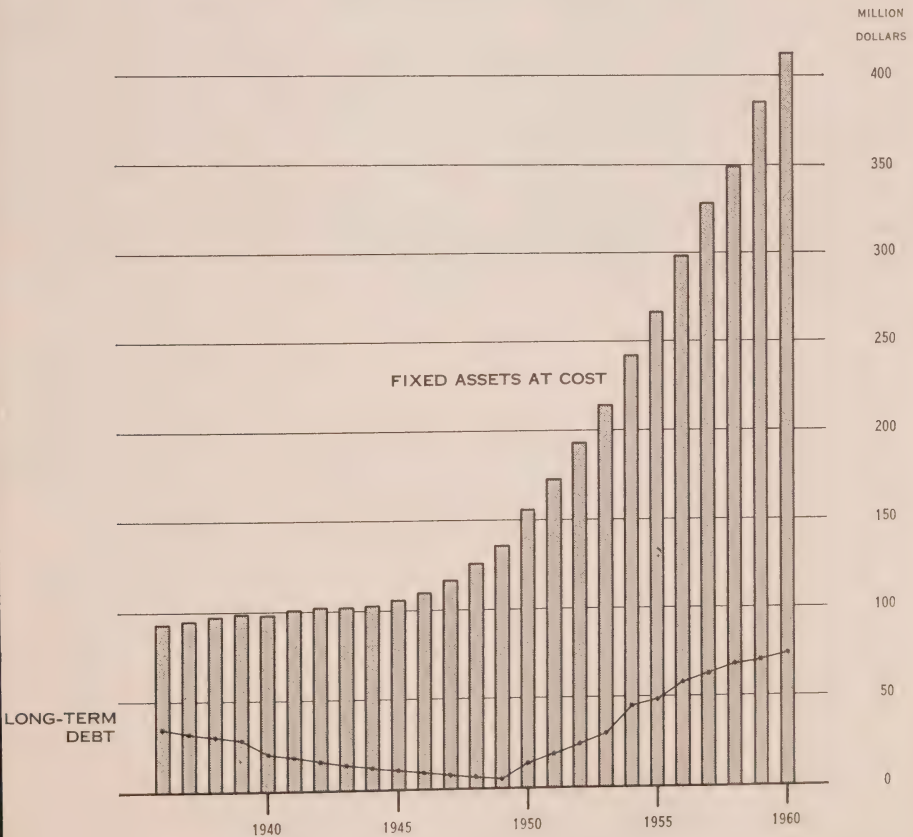


retirement of the Commission's long-term debt. This amount, therefore, represents the utilities' equity in the Commission's power systems. It differs from the sum of the sinking fund reserves shown as contributed by the utilities on the Commission's balance sheets only because most of the utilities close their books before the Commission's calculation of sinking fund for the year is available. Their balance sheet figures for the equity account are therefore for the most part one year in arrears.

The investment of the municipal utilities in fixed assets at cost increased by \$28,192,683 to reach \$413,611,989, against which accumulated depreciation of \$82,246,973 had been provided. Net long-term debt, that is debentures outstanding less local sinking fund provisions, increased by \$3,382,064 to \$72,112,726 at December 31, 1960. The net long-term debt amounted to 17.4 per cent of the cost of fixed assets.

## MUNICIPAL ELECTRICAL UTILITIES

### FIXED ASSETS AND LONG-TERM DEBT



**Municipal Retail Rates**

Under The Power Commission Act the Commission exercises supervisory control over the activities of the municipal electrical utilities, and their rates to ultimate customers are subject to the Commission's approval. The rates set will usually provide for some margin of net income in addition to providing for the operating expenses of the utility.

A margin of net income provides both an economical source of funds for normal system expansion and a stabilizing factor in retail rate adjustment, and the Commission takes this into consideration when reviewing municipal retail rates.

**FINANCIAL AND OTHER STATISTICAL TABLES**

Four statistical tables complete this municipal service supplement. The first two, designated "Statements A and B" and summarized on page 171, deal with accounting operations of the 354 municipal electrical utilities. These statements are the balance sheets and operating statements of the utilities alphabetically arranged for the Southern Ontario System and the Northern Ontario Properties. The other two statements, designated "Statement C" and "Statement D", give rates and statistics for each of the 354 utilities and 28 Commission-owned local systems. Both statements are alphabetically arranged. The rate schedules in Statement "C" are supplemented by typical monthly bills for selected levels of consumption to facilitate comparison of the cost of service in different municipalities. Statement "D" gives information supplementary to that given in Statement "B" regarding customers, revenue, and consumption, both total and average per customer, as well as average unit costs for the three main classes of service. The population figures given are for the most part those recorded in the Municipal Directory for 1961 published by the Department of Municipal Affairs of Ontario.

## MUNICIPAL ELECTRICAL SERVICE

### Statistical Tables

#### STATEMENTS A and B—

##### Financial Statements of the Municipal Electrical Utilities

Consolidated for Years 1951 to 1960.....	Page 170
By Municipalities .....	Page 172

#### STATEMENT C—

##### Rates and Typical Bills for Electrical Service Provided by the

354 Municipal Electrical Utilities and 28 Local Systems .....	Page 222
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#### STATEMENT D—

##### Customers, Revenue, and Consumption in Municipalities Served by

the 354 Municipal Electrical Utilities and 28 Local Systems .....	Page 244
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## MUNICIPAL ELECTRICAL UTILITIES

Year.....	1951	1952	1953	1954
Number of municipalities included.....	324	327	332	338
<b>A. BALANCE SHEETS</b>				
<b>FIXED ASSETS</b>	\$	\$	\$	\$
Plant and facilities at cost.....	173,722,457	193,795,886	214,595,382	243,525,700
Accumulated depreciation.....	48,087,417	50,985,329	54,282,571	58,973,786
Net fixed assets.....	125,635,040	142,810,557	160,312,811	184,551,914
<b>CURRENT ASSETS</b>				
Cash on hand and in bank.....	3,276,779	4,667,729	4,884,136	7,376,869
Investment in government securities..	16,291,593	11,542,720	10,716,659	16,361,137
Accounts receivable.....	7,727,033	7,386,628	10,298,699	10,695,799
Total current assets.....	27,295,405	23,597,077	25,899,494	34,433,805
<b>OTHER ASSETS</b>				
Inventory of stores.....	7,514,369	8,001,403	7,527,844	7,413,229
Sinking fund on local debentures....	613,435	388,410	410,806	383,454
Miscellaneous.....	1,636,237	1,889,669	2,393,860	3,465,797
Total other assets.....	9,764,041	10,279,482	10,332,510	11,262,480
Equity in Ontario Hydro Systems.....	118,269,171	128,655,935	140,068,857	152,461,822
	<b>280,963,657</b>	<b>305,343,051</b>	<b>336,613,672</b>	<b>382,710,021</b>
<b>LIABILITIES</b>				
Debentures outstanding.....	18,889,520	24,159,239	29,827,723	45,645,051
Accounts payable.....	9,738,476	10,375,202	10,943,035	11,090,473
Other.....	1,612,914	1,762,833	2,224,181	2,843,742
Total liabilities.....	30,240,910	36,297,274	42,994,939	59,579,266
<b>RESERVES</b>				
Equity in Ontario Hydro Systems....	118,269,171	128,655,935	140,068,857	152,461,822
Other.....	5,628,317	8,008,752	8,153,001	8,095,705
Total reserves.....	123,897,488	136,664,687	148,221,858	160,557,527
<b>CAPITAL</b>				
Debentures redeemed.....	59,434,312	60,260,350	61,417,714	64,210,220
Local sinking fund.....	613,435	388,410	410,806	383,454
Accumulated net income invested in plant or held as working funds...	67,511,315	72,374,288	83,934,775	98,687,493
Frequency standardization expense charged this year.....	733,803	641,958	366,420	707,939
Total capital.....	126,825,259	132,381,090	145,396,875	162,573,228
	<b>280,963,657</b>	<b>305,343,051</b>	<b>336,613,672</b>	<b>382,710,021</b>
<b>B. OPERATING STATEMENTS</b>				
<b>REVENUE</b>				
Sales of electric energy.....	80,964,214	88,744,441	107,997,010	119,510,834
Other.....	1,347,467	1,314,598	1,257,311	1,345,281
Total revenue.....	<b>82,311,681</b>	<b>90,059,039</b>	<b>109,254,321</b>	<b>120,856,115</b>
<b>EXPENSE</b>				
Power purchased.....	50,854,323	55,583,501	69,750,630	75,589,512
Local generation.....	290,579	322,179	319,744	426,606
Operation and maintenance.....	8,886,314	9,918,638	10,674,897	11,527,269
Administration.....	7,283,472	7,645,806	8,236,239	9,299,705
Fixed charges—interest and principal..	1,524,931	1,981,386	2,400,468	3,242,705
—depreciation.....	4,717,497	5,293,509	5,832,594	6,547,361
—other.....	87,225	71,211	147,083	141,824
Total expense.....	<b>73,644,341</b>	<b>80,816,230</b>	<b>97,361,655</b>	<b>106,774,982</b>
Net income or net expense.....	<b>8,667,340</b>	<b>9,242,809</b>	<b>11,892,666</b>	<b>14,081,133</b>
Number of customers.....	904,880	941,975	986,144	1,045,742



## CONSOLIDATED FINANCIAL STATEMENTS 1951-1960

1955	1956	1957	1958	1959	1960
343	350	351	354	354	354
\$	\$	\$	\$	\$	\$
267,090,752	298,832,207	327,925,974	349,706,161	385,419,306	413,611,989
62,413,111	66,539,420	68,975,083	72,673,866	77,551,575	82,246,973
204,677,641	232,292,787	258,950,891	277,032,295	307,867,731	331,365,016
9,277,807	9,858,536	10,819,896	10,769,037	10,400,010	12,250,801
17,392,469	15,512,896	14,174,408	13,333,906	15,560,183	13,990,120
9,939,403	12,776,466	12,573,922	13,911,267	13,463,791	12,868,807
36,609,679	38,147,898	37,568,226	38,014,210	39,423,984	39,109,728
7,900,466	9,681,858	9,579,584	17,237,653	9,381,215	9,197,511
383,751	290,682	561,622	1,033,436	1,726,182	2,316,958
2,323,308	2,399,184	1,894,582	2,214,392	2,421,279	2,553,588
10,607,525	12,371,724	12,035,788	20,485,481	13,528,676	14,068,057
167,250,921	183,262,708	200,293,236	218,736,441	238,790,589	261,101,650
<b>419,145,766</b>	<b>466,075,117</b>	<b>508,848,141</b>	<b>554,268,427</b>	<b>599,610,980</b>	<b>645,644,451</b>
49,776,907	58,528,557	63,315,360	69,363,792	70,456,844	74,429,684
10,574,522	11,633,156	11,226,905	10,105,465	10,589,995	10,485,382
3,493,146	3,910,276	4,207,237	6,175,200	6,565,031	7,146,524
63,844,575	74,071,989	78,749,502	85,644,457	87,611,870	92,061,590
167,250,921	183,262,708	200,293,236	218,736,441	238,790,589	261,101,650
7,765,477	6,948,236	5,658,849	3,507,375	2,864,918	2,920,005
175,016,398	190,210,944	205,952,085	222,243,816	241,655,507	264,021,655
66,488,672	69,338,990	72,087,556	75,021,200	77,881,620	81,266,027
383,751	290,682	561,622	1,033,436	1,726,182	2,316,958
114,727,112	132,983,134	152,057,614	170,871,551	190,444,985	205,984,657
1,314,742	820,622	560,238	546,033	290,816	6,436
180,284,793	201,792,184	224,146,554	246,380,154	270,343,603	289,561,206
<b>419,145,766</b>	<b>466,075,117</b>	<b>508,848,141</b>	<b>554,268,427</b>	<b>599,610,980</b>	<b>645,644,451</b>
129,810,298	142,629,092	151,855,664	160,700,759	175,686,813	186,599,701
1,457,199	1,554,347	1,580,224	1,723,986	2,400,070	2,720,870
<b>131,267,497</b>	<b>144,183,439</b>	<b>153,435,888</b>	<b>162,424,745</b>	<b>178,086,883</b>	<b>189,320,571</b>
79,779,898	87,344,024	92,682,089	98,563,451	111,160,867	122,634,361
459,594	501,386	575,771	509,240	531,076	536,118
12,076,620	13,406,955	14,362,587	15,544,060	17,065,080	18,273,164
9,896,805	11,015,893	12,086,583	13,654,386	14,954,828	15,766,246
4,216,877	4,744,936	5,504,842	6,175,773	6,824,770	7,440,556
7,193,495	7,709,546	8,389,004	9,216,594	10,030,350	10,750,710
144,121	59,374	53,525	13,060	14,316	22,506
<b>113,767,410</b>	<b>124,782,114</b>	<b>133,654,401</b>	<b>143,676,564</b>	<b>160,581,287</b>	<b>175,423,661</b>
<b>17,500,087</b>	<b>19,401,325</b>	<b>19,781,487</b>	<b>18,748,181</b>	<b>17,505,596</b>	<b>13,896,910</b>
1,089,835	1,153,371	1,192,357	1,255,805	1,310,099	1,351,915

Municipal Electrical Utilities Financial

Southern Ontario System

Municipality.....	Acton	Ailsa Craig	Ajax	Alexandria	Alfred	Alliston
Population.....	4,336	541	7,937	2,451	915	2,904
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	371,212	39,582	850,322	247,925	73,924	187,579
Accumulated depreciation.....	35,160	1,237	149,493	59,933	17,063	37,664
Net fixed assets.....	336,052	38,345	700,829	187,992	56,861	149,915
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	13,594	6,401	47,367	4,393	8,023	9,007
Investment in government securities	3,000			13,000		18,000
Accounts receivable.....	2,832	112	25,821	4,107	5,804	4,854
Total current assets.....	19,426	6,513	73,188	21,500	13,827	31,861
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,146		28,209	10,839		4,795
Sinking fund on local debentures...						
Miscellaneous.....	304		3,493	222	519	117
Total other assets.....	1,450		31,702	11,061	519	4,912
Equity in Ontario Hydro Systems...	366,083	53,036	75,506	133,970	6,199	130,137
	<b>723,011</b>	<b>97,894</b>	<b>881,225</b>	<b>354,523</b>	<b>77,406</b>	<b>316,825</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	59,700		304,000	3,853	31,000	
Accounts payable.....	402		563	407	2,079	514
Other.....	7,670	260	54,077	3,164	2,544	4,072
Total liabilities.....	67,772	260	358,640	7,424	35,623	4,586
<b>RESERVES</b>						
Equity in Ontario Hydro Systems...	366,083	53,036	75,506	133,970	6,199	130,137
Other.....			550			125
Total reserves.....	366,083	53,036	76,056	133,970	6,199	130,262
<b>CAPITAL</b>						
Debentures redeemed.....	24,239	6,883	44,351	49,446	7,000	29,990
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	264,917	37,715	402,178	163,683	28,584	151,987
Frequency standardization expense charged this year.....						
Total capital.....	289,156	44,598	446,529	213,129	35,584	181,977
	<b>723,011</b>	<b>97,894</b>	<b>881,225</b>	<b>354,523</b>	<b>77,406</b>	<b>316,825</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	219,182	18,425	332,429	88,871	26,713	109,216
Other.....	829	49	5,297	5,203	246	1,035
<b>Total revenue.....</b>	<b>220,011</b>	<b>18,474</b>	<b>337,726</b>	<b>94,074</b>	<b>26,959</b>	<b>110,251</b>
<b>EXPENSE</b>						
Power purchased.....	151,727	13,421	183,712	70,303	15,076	73,552
Local generation.....						
Operation and maintenance.....	23,026	1,246	26,267	6,682	1,718	15,128
Administration.....	12,226	1,063	54,439	8,663	2,829	8,169
Fixed charges—interest and principal	5,515		27,749	2,072	3,008	
—depreciation.....	7,659	800	20,792	6,903	1,997	4,717
—other.....						
<b>Total expense.....</b>	<b>200,153</b>	<b>16,530</b>	<b>312,959</b>	<b>94,623</b>	<b>24,628</b>	<b>101,566</b>
<b>Net income or net expense.....</b>	<b>19,858</b>	<b>1,944</b>	<b>24,767</b>	<b>549</b>	<b>2,331</b>	<b>8,685</b>
Number of customers.....	1,306	222	2,166	867	299	1,090

Statements for the Year Ended December 31, 1960

Almonte	Alvinston	Amherst- burg	Ancaster Twp.	Apple Hill	Arkona	Arnprior	Arthur	Athens
3,295	651	4,344	12,903	400	480	5,502	1,241	981
\$ 398,549 88,051	\$ 58,752 17,159	\$ 392,551 75,269	\$ 245,651 34,457	\$ 22,623 5,137	\$ 44,574 9,837	\$ 424,883 53,072	\$ 103,608 23,287	\$ 62,335 10,360
310,498	41,593	317,282	211,194	17,486	34,737	371,811	80,321	51,975
2,480	4,560	4,830	13,145	3,150	4,218	42,601	.....	.....
52,000	3,500	17,846	.....	3,000	4,000	.....	10,000	14,000
2,757	877	1,128	140	719	1,513	1,272	1,965	4,293
57,237	8,937	23,804	13,285	6,869	9,731	43,873	11,965	18,293
9,478	.....	5,617	247	.....	.....	3,999	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	300	346	1,877	250	.....	.....	882	.....
9,478	300	5,963	2,124	250	.....	3,999	882	.....
50,497	51,940	287,019	116,278	12,544	29,585	195,013	77,504	32,115
<b>427,710</b>	<b>102,770</b>	<b>634,068</b>	<b>342,881</b>	<b>37,149</b>	<b>74,053</b>	<b>614,696</b>	<b>170,672</b>	<b>102,383</b>
.....	.....	17,200	76,635	.....	.....	44,012	.....	.....
6,722	1,073	.....	788	.....	2,582	3,417	2,415	1,167
1,217	91	3,841	2,001	37	70	7,437	683	193
7,939	1,164	21,041	79,424	37	2,652	54,866	3,098	1,360
50,497	51,940	287,019	116,278	12,544	29,585	195,013	77,504	32,115
1,895	7	276	.....	.....	.....	1,143	.....	206
52,392	51,947	287,295	116,278	12,544	29,585	196,156	77,504	32,321
72,000	23,529	51,284	51,611	5,080	13,113	81,457	23,913	12,988
.....	.....	.....	.....	.....	.....	.....	.....	.....
295,379	26,130	274,448	95,568	19,488	28,703	282,217	66,157	55,714
.....	.....	.....	.....	.....	.....	.....	.....	.....
367,379	49,659	325,732	147,179	24,568	41,816	363,674	90,070	68,702
<b>427,710</b>	<b>102,770</b>	<b>634,068</b>	<b>342,881</b>	<b>37,149</b>	<b>74,053</b>	<b>614,696</b>	<b>170,672</b>	<b>102,383</b>
101,833	18,062	199,812	129,985	6,561	19,197	198,018	40,107	18,639
3,376	150	2,649	59	163	152	760	410	755
<b>105,209</b>	<b>18,212</b>	<b>202,461</b>	<b>130,044</b>	<b>6,724</b>	<b>19,349</b>	<b>198,778</b>	<b>40,517</b>	<b>19,394</b>
49,277	10,057	130,385	85,433	3,384	14,438	146,612	27,931	14,805
10,973	.....	.....	.....	.....	.....	.....	.....	.....
8,945	2,115	11,822	11,070	513	859	8,321	4,979	1,261
12,203	2,340	16,400	12,990	901	1,349	18,633	2,546	1,375
.....	.....	4,606	9,117	.....	.....	6,619	.....	168
10,453	1,760	10,074	5,970	615	1,241	10,008	2,878	1,574
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>91,851</b>	<b>16,272</b>	<b>173,287</b>	<b>124,580</b>	<b>5,413</b>	<b>17,887</b>	<b>190,193</b>	<b>38,334</b>	<b>19,183</b>
<b>13,358</b>	<b>1,940</b>	<b>29,174</b>	<b>5,464</b>	<b>1,311</b>	<b>1,462</b>	<b>8,585</b>	<b>2,183</b>	<b>211</b>
1,085	323	1,451	1,086	117	200	1,751	496	350

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Aurora	Avonmore	Aylmer	Ayr	Baden	Bancroft
Population.....	7,124	250	4,734	1,035	882	2,497
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	528,284	22,673	319,558	78,977	67,640	284,792
Accumulated depreciation.....	75,817	5,128	84,379	12,744	11,574	66,404
Net fixed assets.....	452,467	17,545	235,179	66,233	56,066	218,388
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	169	657	30,565	.....	4,462	38,873
Investment in government securities.....	.....	.....	.....	10,500	6,500	.....
Accounts receivable.....	4,426	346	8,327	666	352	6,098
Total current assets.....	4,595	1,003	38,892	11,166	11,314	44,971
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,299	.....	537	45	85	10,603
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	4,500	459	4,517	.....	.....	1,003
Total other assets.....	5,799	459	5,054	45	85	11,606
Equity in Ontario Hydro Systems.....	163,545	3,757	263,594	68,293	114,312	28,519
	<b>626,406</b>	<b>22,764</b>	<b>542,719</b>	<b>145,737</b>	<b>181,777</b>	<b>303,484</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	125,000	13,500	40,500	.....	.....	74,750
Accounts payable.....	2,032	.....	255	2,726	.....	858
Other.....	13,753	3,424	4,126	373	150	2,851
Total liabilities.....	140,785	16,924	44,881	3,099	150	78,459
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	163,545	3,757	263,594	68,293	114,312	28,519
Other.....	444	.....	262	.....	.....	.....
Total reserves.....	163,989	3,757	263,856	68,293	114,312	28,519
<b>CAPITAL</b>						
Debentures redeemed.....	.....	500	48,202	17,503	5,000	57,750
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	321,632	1,583	185,780	56,842	62,315	138,756
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	321,632	2,083	233,982	74,345	67,315	196,506
	<b>626,406</b>	<b>22,764</b>	<b>542,719</b>	<b>145,737</b>	<b>181,777</b>	<b>303,484</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	274,444	9,946	186,402	38,901	39,226	93,544
Other.....	9,434	35	1,322	519	188	93
Total revenue.....	<b>283,878</b>	<b>9,981</b>	<b>187,724</b>	<b>39,420</b>	<b>39,414</b>	<b>93,637</b>
<b>EXPENSE</b>						
Power purchased.....	191,466	5,369	143,768	27,751	32,586	39,797
Local generation.....	.....	.....	.....	.....	.....	4,556
Operation and maintenance.....	25,347	426	13,900	3,784	2,099	5,518
Administration.....	21,329	804	9,723	2,386	2,711	6,191
Fixed charges—interest and principal.....	10,020	1,261	4,972	.....	.....	9,649
—depreciation.....	12,014	549	8,995	2,012	1,668	7,654
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>260,176</b>	<b>8,409</b>	<b>181,358</b>	<b>35,933</b>	<b>39,064</b>	<b>73,365</b>
Net income or net expense.....	<b>23,702</b>	<b>1,572</b>	<b>6,366</b>	<b>3,487</b>	<b>350</b>	<b>20,272</b>
Number of customers.....	2,631	114	1,561	372	281	791



Statements for the Year Ended December 31, 1960

Barrie	Barry's Bay	Bath	Beachville	Beamsville	Beaverton	Beeton	Belle River	Belleville
21,271	1,468	723	820	2,387	1,159	783	1,847	29,070
\$ 1,742,209 426,695	\$ 82,765 5,254	\$ 61,367 12,786	\$ 101,904 26,443	\$ 136,187 27,979	\$ 119,365 19,770	\$ 67,171 8,167	\$ 110,413 19,492	\$ 1,949,490 352,727
1,315,514	77,511	48,581	75,461	108,208	99,595	59,004	90,921	1,596,763
150	15,051	7,245	19,333	11,488	4,473	8,438	738	700
14,063	.....	.....	25,000	4,000	.....	1,500	7,000	.....
18,177	794	578	802	582	280	927	361	66,066
32,390	15,845	7,823	45,135	16,070	4,753	10,865	8,099	66,766
31,373	.....	.....	.....	.....	799	19	522	25,755
100	.....	400	.....	.....	.....	.....	945	.....
31,473	.....	400	.....	.....	799	19	1,467	25,755
905,633	10,752	16,241	186,837	79,288	91,099	56,435	59,053	1,190,115
<b>2,285,010</b>	<b>104,108</b>	<b>73,045</b>	<b>307,433</b>	<b>203,566</b>	<b>196,246</b>	<b>126,323</b>	<b>159,540</b>	<b>2,879,399</b>
.....	.....	8,000	.....	.....	.....	.....	4,100	.....
18,112	1,556	463	483	2,613	642	128	294	241,233
22,014	250	754	450	1,511	690	1,024	1,455	38,874
40,126	1,806	9,217	933	4,124	1,332	1,152	5,849	280,107
905,633	10,752	16,241	186,837	79,288	91,099	56,435	59,053	1,190,115
500	.....	50	193	.....	370	87	.....	.....
906,133	10,752	16,291	187,030	79,288	91,469	56,522	59,053	1,190,115
65,366	7,500	9,500	5,537	37,500	12,839	13,610	16,400	174,997
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,273,385	84,050	38,037	113,933	82,654	90,606	55,039	78,238	1,234,180
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,338,751	91,550	47,537	119,470	120,154	103,445	68,649	94,638	1,409,177
<b>2,285,010</b>	<b>104,108</b>	<b>73,045</b>	<b>307,433</b>	<b>203,566</b>	<b>196,246</b>	<b>126,323</b>	<b>159,540</b>	<b>2,879,399</b>
851,590	23,515	20,279	113,303	81,840	67,611	27,304	50,657	934,494
6,699	87	1	1,520	833	718	34	566	18,222
<b>858,289</b>	<b>23,602</b>	<b>20,280</b>	<b>114,823</b>	<b>82,673</b>	<b>68,329</b>	<b>27,338</b>	<b>51,223</b>	<b>952,716</b>
532,865	13,640	10,990	92,186	53,587	39,830	18,380	27,209	693,456
99,996	1,525	982	2,011	4,708	6,028	1,274	9,449	77,306
60,707	3,506	2,011	1,481	7,383	4,945	1,922	7,446	81,517
.....	.....	967	.....	.....	.....	.....	1,538	12,964
48,501	1,817	1,657	2,886	3,546	2,928	1,568	2,794	47,052
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>742,069</b>	<b>20,488</b>	<b>16,607</b>	<b>98,564</b>	<b>69,224</b>	<b>53,731</b>	<b>23,144</b>	<b>48,436</b>	<b>912,295</b>
<b>116,220</b>	<b>3,114</b>	<b>3,673</b>	<b>16,259</b>	<b>13,449</b>	<b>14,598</b>	<b>4,194</b>	<b>2,787</b>	<b>40,421</b>
6,961	412	246	290	855	556	314	690	9,715

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality .....	Blenheim	Bloomfield	Blyth	Bobcaygeon	Bolton	Bothwell
Population .....	3,045	720	743	1,197	1,921	804
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost .....	301,233	58,990	66,245	211,932	153,697	59,231
Accumulated depreciation .....	45,131	18,410	10,113	43,768	22,790	17,101
Net fixed assets .....	256,102	40,580	56,132	168,164	130,907	42,130
<b>CURRENT ASSETS</b>						
Cash on hand and in bank .....	3,119	1,805	12,897	6,645	4,227	1,754
Investment in government securities .....		8,992	2,000			5,952
Accounts receivable .....	1,552	138	295	792	2,130	666
Total current assets .....	4,671	10,935	15,192	7,437	6,357	8,372
<b>OTHER ASSETS</b>						
Inventory of stores .....	1,673	465	58	4,614	371	28
Sinking fund on local debentures .....						
Miscellaneous .....	230	1,050		5,565	1,720	
Total other assets .....	1,903	1,515	58	10,179	2,091	28
Equity in Ontario Hydro Systems .....	163,182	34,900	52,147	25,476	76,966	61,001
	<b>425,858</b>	<b>87,930</b>	<b>123,529</b>	<b>211,256</b>	<b>216,321</b>	<b>111,531</b>
<b>LIABILITIES</b>						
Debentures outstanding .....	51,111			84,000	49,681	
Accounts payable .....	186	502	79	423	11,194	228
Other .....	8,001	569	237	7,055	3,338	150
Total liabilities .....	59,298	1,071	316	91,478	64,213	378
<b>RESERVES</b>						
Equity in Ontario Hydro Systems .....	163,182	34,900	52,147	25,476	76,966	61,001
Other .....	183				216	
Total reserves .....	163,365	34,900	52,147	25,476	77,182	61,001
<b>CAPITAL</b>						
Debentures redeemed .....	46,889	9,797	16,033	15,283	17,524	5,534
Local sinking fund .....						
Accumulated net income invested in plant or held as working funds .....	156,306	42,162	55,033	79,019	57,402	44,618
Frequency standardization expense charged this year .....						
Total capital .....	203,195	51,959	71,066	94,302	74,926	50,152
	<b>425,858</b>	<b>87,930</b>	<b>123,529</b>	<b>211,256</b>	<b>216,321</b>	<b>111,531</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy .....	98,533	16,927	35,419	53,905	71,012	23,977
Other .....	2,739	675	104	359	951	738
<b>Total revenue .....</b>	<b>101,272</b>	<b>17,602</b>	<b>35,523</b>	<b>54,264</b>	<b>71,963</b>	<b>24,715</b>
<b>EXPENSE</b>						
Power purchased .....	55,499	14,440	27,054	26,964	45,358	14,133
Local generation .....						
Operation and maintenance .....	12,062	1,385	2,708	4,329	4,872	2,975
Administration .....	14,187	2,183	2,018	6,531	8,179	2,718
Fixed charges—interest and principal .....	9,844			6,964	4,950	
—depreciation .....	7,379	1,104	1,641	6,040	3,628	1,719
—other .....						
<b>Total expense .....</b>	<b>98,971</b>	<b>19,112</b>	<b>33,421</b>	<b>50,828</b>	<b>66,987</b>	<b>21,545</b>
<b>Net income or net expense .....</b>	<b>2,301</b>	<b>1,510</b>	<b>2,102</b>	<b>3,436</b>	<b>4,976</b>	<b>3,170</b>
Number of customers .....	1,125	313	326	711	654	319

## Statements for the Year Ended December 31, 1960

Bowman- ville 7,308	Bracebridge 2,906	Bradford 2,395	Braeside 563	Brampton 17,385	Brantford 53,616	Brantford Twp. 7,473	Brechin 259	Bridgeport 1,674
\$ 653,416 188,836	\$ 845,555 194,560	\$ 234,147 31,173	\$ 30,033 1,715	\$ 1,613,065 125,623	\$ 4,745,111 1,082,147	\$ 986,712 241,991	\$ 20,424 3,215	\$ 87,899 19,941
464,580	650,995	202,974	28,318	1,487,442	3,662,964	744,721	17,209	67,958
20,677	19,031	14,245	15,992	100	3,261	17,317	2,551	2,756
119,217	.....	8,000	.....	1,500	32,000	45,000	7,000	5,000
5,251	1,888	4,353	6,240	22,275	66,620	13,808	235	1,000
145,145	20,919	26,598	22,232	23,875	101,881	76,125	9,786	8,756
14,162	16,150	10,212	.....	26,491	85,844	23,144	.....	22
.....	664	371	.....	992	1,583	4,276	300	138
14,162	16,814	10,583	.....	27,483	87,427	27,420	300	160
441,786	1,861	102,659	19,119	785,063	4,403,553	202,998	24,004	47,011
<b>1,065,673</b>	<b>690,589</b>	<b>342,814</b>	<b>69,669</b>	<b>2,323,863</b>	<b>8,255,825</b>	<b>1,051,264</b>	<b>51,299</b>	<b>123,885</b>
.....	248,961	.....	1,602	491,635	543,880	486,329	.....	16,709
841	325	.....	.....	137,952	23,344	2,339	2,165	.....
3,464	885	2,368	215	26,478	72,213	19,314	140	1,863
4,305	250,171	2,368	1,817	656,065	639,437	507,982	2,305	18,572
441,786	1,861	102,659	19,119	785,063	4,403,553	202,998	24,004	47,011
475	.....	95	.....	540	1,743	328	50	.....
442,261	1,861	102,754	19,119	785,603	4,405,296	203,326	24,054	47,011
71,000	256,839	23,351	4,398	139,311	900,803	78,784	2,664	14,818
548,107	181,718	214,341	44,335	742,884	2,315,623	261,172	22,276	43,484
.....	.....	.....	.....	.....	5,334	.....	.....	.....
619,107	438,557	237,692	48,733	882,195	3,211,092	339,956	24,940	58,302
<b>1,065,673</b>	<b>690,589</b>	<b>342,814</b>	<b>69,669</b>	<b>2,323,863</b>	<b>8,255,825</b>	<b>1,051,264</b>	<b>51,299</b>	<b>123,885</b>
265,136	127,131	101,096	67,093	643,578	2,185,040	384,247	7,551	45,511
10,772	1,992	537	72	7,919	3,956	3,748	212	416
<b>275,908</b>	<b>129,123</b>	<b>101,633</b>	<b>67,165</b>	<b>651,497</b>	<b>2,188,996</b>	<b>387,995</b>	<b>7,763</b>	<b>45,927</b>
196,889	1,855	63,610	51,683	398,552	1,619,151	210,373	3,724	32,631
.....	31,404	.....	.....	.....	.....	.....	.....	.....
28,258	18,317	14,006	900	41,833	125,150	35,092	664	2,864
19,686	12,107	10,416	1,083	42,662	88,491	27,599	760	5,615
.....	29,427	.....	451	44,712	65,345	43,016	.....	1,510
19,040	17,582	5,207	643	32,078	129,853	27,363	494	2,405
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>263,873</b>	<b>110,692</b>	<b>93,239</b>	<b>54,760</b>	<b>559,837</b>	<b>2,027,990</b>	<b>343,443</b>	<b>5,642</b>	<b>45,025</b>
<b>12,035</b>	<b>18,431</b>	<b>8,394</b>	<b>12,405</b>	<b>91,660</b>	<b>161,006</b>	<b>44,552</b>	<b>2,121</b>	<b>902</b>
2,446	1,133	836	161	5,392	17,009	2,195	99	460

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Brigden	Brighton	Brockville	Brussels	Burford	Burgess- ville
Population.....	491	2,345	17,124	830	1,029	245
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>						
Plant and facilities at cost.....	\$ 46,805	\$ 220,105	\$ 1,651,260	\$ 71,939	\$ 75,398	\$ 22,658
Accumulated depreciation.....	10,366	16,761	385,918	7,030	20,594	6,382
Net fixed assets.....	36,439	203,344	1,265,342	64,909	54,804	16,276
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	7,884	3,007	20,756	1,703	12,127	2,467
Investment in government securities	1,975	.....	12,000	.....	3,500	1,500
Accounts receivable.....	663	1,543	29,524	733	979	168
Total current assets.....	10,522	4,550	62,280	2,436	16,606	4,135
<b>OTHER ASSETS</b>						
Inventory of stores.....	28	9,576	19,169	103	122	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	13	1,980	2,743	.....	.....	.....
Total other assets.....	41	11,556	21,912	103	122	.....
Equity in Ontario Hydro Systems.....	41,404	87,745	1,032,720	62,458	67,043	21,881
	<b>88,406</b>	<b>307,195</b>	<b>2,382,254</b>	<b>129,906</b>	<b>138,575</b>	<b>42,292</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	39,000	203,500	.....	10,919	.....
Accounts payable.....	4,203	4,605	126,199	414	.....	739
Other.....	191	3,135	17,694	307	1,256	.....
Total liabilities.....	4,394	46,740	347,393	721	12,175	739
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	41,404	87,745	1,032,720	62,458	67,043	21,881
Other.....	40	.....	174	.....	.....	.....
Total reserves.....	41,444	87,745	1,032,894	62,458	67,043	21,881
<b>CAPITAL</b>						
Debentures redeemed.....	8,000	26,000	188,770	21,000	9,935	3,500
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	34,568	146,710	813,197	45,727	49,422	16,172
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	42,568	172,710	1,001,967	66,727	59,357	19,672
	<b>88,406</b>	<b>307,195</b>	<b>2,382,254</b>	<b>129,906</b>	<b>138,575</b>	<b>42,292</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	15,470	74,393	717,827	36,793	46,606	10,737
Other.....	283	1,011	16,439	160	261	135
Total revenue.....	<b>15,753</b>	<b>75,404</b>	<b>734,266</b>	<b>36,953</b>	<b>46,867</b>	<b>10,872</b>
<b>EXPENSE</b>						
Power purchased.....	9,891	47,506	486,273	26,444	30,090	7,719
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	1,288	8,479	76,268	1,929	2,842	211
Administration.....	1,432	9,545	64,424	2,399	2,918	479
Fixed charges—interest and principal	.....	3,374	18,952	.....	1,215	.....
—depreciation.....	1,310	4,387	41,485	1,684	2,163	697
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>13,921</b>	<b>73,291</b>	<b>687,402</b>	<b>32,456</b>	<b>39,228</b>	<b>9,106</b>
Net income or net expense.....	<b>1,832</b>	<b>2,113</b>	<b>46,864</b>	<b>4,497</b>	<b>7,639</b>	<b>1,766</b>
Number of customers.....	215	981	5,879	385	427	100



## Statements for the Year Ended December 31, 1960

Burk's Falls	Burlington	Caledonia	Campbell- ford	Campbell- ville	Cannington	Cardinal	Carleton Place	Casselman
884	44,709	2,265	3,373	364	1,059	1,972	4,688	1,301
\$ 79,164 12,887	\$ 3,416,334 519,412	\$ 150,983 26,998	\$ 674,628 129,578	\$ 17,026 4,596	\$ 71,537 17,471	\$ 73,890 12,746	\$ 264,684 51,166	\$ 89,749 8,520
66,277	2,896,922	123,985	545,050	12,430	54,066	61,144	213,518	81,229
3,094	131,568	5,200	150	3,683	12,363	9,670	.....	4,558
4,900	37,500	.....	.....	2,398	6,000	1,500	15,000	14,000
1,412	65,640	4,487	8,624	112	799	473	5,168	19
9,406	234,708	9,687	8,774	6,193	19,162	11,643	20,168	18,577
291	42,531	423	11,862	.....	58	.....	6,126	.....
.....	93,936	121	1,579	12	.....	500	100	4,838
291	136,467	544	13,441	12	58	500	6,226	4,838
15,200	582,588	99,426	830	14,083	67,410	58,024	361,353	14,292
<b>91,174</b>	<b>3,850,685</b>	<b>233,642</b>	<b>568,095</b>	<b>32,718</b>	<b>140,696</b>	<b>131,311</b>	<b>601,265</b>	<b>118,936</b>
11,162	1,966,221	2,500	63,000	.....	.....	.....	13,680	48,500
323	4,503	608	68,631	21	1,107	.....	6,280	14
121	130,375	2,402	5,059	.....	365	180	3,496	55
11,606	2,101,099	5,510	136,690	21	1,472	180	23,456	48,569
15,200	582,588	99,426	830	14,083	67,410	58,024	361,353	14,292
.....	.....	.....	350	8	35	.....	166	.....
15,200	582,588	99,426	1,180	14,091	67,445	58,024	361,519	14,292
23,838	284,207	13,024	2,000	5,448	14,533	11,014	59,617	21,500
.....	.....	.....	.....	.....	.....	.....	.....	.....
40,530	882,791	115,682	428,225	13,158	57,246	62,093	156,673	34,575
.....	.....	.....	.....	.....	.....	.....	.....	.....
64,368	1,166,998	128,706	430,225	18,606	71,779	73,107	216,290	56,075
<b>91,174</b>	<b>3,850,685</b>	<b>233,642</b>	<b>568,095</b>	<b>32,718</b>	<b>140,696</b>	<b>131,311</b>	<b>601,265</b>	<b>118,936</b>
33,612	1,927,526	63,545	101,995	9,031	37,740	44,633	176,871	39,020
684	6,521	142	2,495	94	306	198	1,068	725
<b>34,296</b>	<b>1,934,047</b>	<b>63,687</b>	<b>104,490</b>	<b>9,125</b>	<b>38,046</b>	<b>44,831</b>	<b>177,939</b>	<b>39,745</b>
20,031	1,088,284	38,744	29,509	6,597	22,312	34,628	118,381	24,156
.....	.....	.....	25,454	.....	.....	.....	.....	.....
3,377	130,358	7,124	12,768	417	1,629	3,443	17,519	2,178
3,066	128,546	7,922	25,720	547	2,827	3,503	25,326	3,529
3,039	180,893	643	5,488	.....	.....	.....	1,580	5,575
1,874	79,130	3,770	7,644	498	2,047	1,879	6,829	1,985
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>31,387</b>	<b>1,607,211</b>	<b>58,203</b>	<b>106,583</b>	<b>8,059</b>	<b>28,815</b>	<b>43,453</b>	<b>169,635</b>	<b>37,423</b>
<b>2,909</b>	<b>326,836</b>	<b>5,484</b>	<b>2,093</b>	<b>1,066</b>	<b>9,231</b>	<b>1,378</b>	<b>8,304</b>	<b>2,322</b>
341	13,547	788	1,346	90	450	663	1,712	379

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Cayuga	Chalk River	Chatham	Chatsworth	Chesley	Chester-ville
Population.....	920	1,052	29,271	399	1,635	1,248
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	91,616	66,582	2,892,409	29,934	111,525	80,424
Accumulated depreciation.....	16,969	12,942	618,896	8,711	35,511	15,500
Net fixed assets.....	74,647	53,640	2,273,513	21,223	76,014	64,924
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....		8,856	54,760	7,305	13,111	16,428
Investment in government securities	6,000		140,000	6,000	17,000	6,000
Accounts receivable.....	718	3,546	170,273	398	410	3,481
Total current assets.....	6,718	12,402	365,033	13,703	30,521	25,909
<b>OTHER ASSETS</b>						
Inventory of stores.....	292		88,456		974	
Sinking fund on local debentures.....						
Miscellaneous.....		2,633	44,630			
Total other assets.....	292	2,633	133,086		974	
Equity in Ontario Hydro Systems....	44,477	10,335	1,824,185	24,792	151,312	114,827
	<b>126,134</b>	<b>79,010</b>	<b>4,595,817</b>	<b>59,718</b>	<b>258,821</b>	<b>205,660</b>
<b>LIABILITIES</b>						
Debentures outstanding.....		48,500	684,684			
Accounts payable.....	645		94,053	64	476	200
Other.....	1,260	566	36,446	148		154
Total liabilities.....	1,905	49,066	815,183	212	476	354
<b>RESERVES</b>						
Equity in Ontario Hydro Systems....	44,477	10,335	1,824,185	24,792	151,312	114,827
Other.....	62		72,855			
Total reserves.....	44,539	10,335	1,897,040	24,792	151,312	114,827
<b>CAPITAL</b>						
Debentures redeemed.....	20,000	6,500	835,316	5,014	24,410	5,889
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	59,690	13,109	1,048,278	29,700	82,623	84,590
Frequency standardization expense charged this year.....						
Total capital.....	79,690	19,609	1,883,594	34,714	107,033	90,479
	<b>126,134</b>	<b>79,010</b>	<b>4,595,817</b>	<b>59,718</b>	<b>258,821</b>	<b>205,660</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	28,359	23,236	1,459,215	14,558	59,545	67,432
Other.....	161	357	15,555	300	917	422
<b>Total revenue.....</b>	<b>28,520</b>	<b>23,593</b>	<b>1,474,770</b>	<b>14,858</b>	<b>60,462</b>	<b>67,854</b>
<b>EXPENSE</b>						
Power purchased.....	17,330	16,211	736,355	9,925	42,746	50,169
Local generation.....						
Operation and maintenance.....	4,313	880	306,427	1,051	5,140	3,399
Administration.....	5,305	1,584	182,585	1,149	5,337	5,161
Fixed charges—interest and principal		4,778	90,616			
—depreciation.....	2,368	1,655	76,049	894	3,485	2,098
—other.....						
<b>Total expense.....</b>	<b>29,316</b>	<b>25,108</b>	<b>1,392,032</b>	<b>13,019</b>	<b>56,708</b>	<b>60,827</b>
<b>Net income or net expense.....</b>	<b>796</b>	<b>1,515</b>	<b>82,738</b>	<b>1,839</b>	<b>3,754</b>	<b>7,027</b>
Number of customers.....	371	290	9,509	165	717	457

## Statements for the Year Ended December 31, 1960

Chippawa	Clifford	Clinton	Cobden	Cobourg	Colborne	Coldwater	Collingwood	Comber
3,027	557	3,107	915	9,445	1,337	752	8,505	580
\$	\$	\$	\$	\$	\$	\$	\$	\$
196,438	43,974	298,431	68,858	910,672	92,323	56,686	540,680	54,097
33,930	6,704	46,117	8,082	192,775	10,578	11,654	96,715	12,638
162,508	37,270	252,314	60,776	717,897	81,745	45,032	443,965	41,459
24,684	7,811	1,803	1,967	61,417	130	14,632	44,160	4,355
.....	3,000	.....	18,000	10,000	.....	12,500	33,331	.....
6,066	92	4,583	248	31,663	7,565	1,466	5,815	328
30,750	10,903	6,386	20,215	103,080	7,695	28,598	83,306	4,683
165	17	5,205	.....	18,334	14,028	.....	19,138	12
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,097	.....	310	681	435	11	57	1,406	921
1,262	17	5,515	681	18,769	14,039	57	20,544	933
80,901	35,779	211,780	27,555	475,171	47,148	53,396	588,114	61,410
<b>275,421</b>	<b>83,969</b>	<b>475,995</b>	<b>109,227</b>	<b>1,314,917</b>	<b>150,627</b>	<b>127,083</b>	<b>1,135,929</b>	<b>108,485</b>
63,000	5,854	55,100	.....	.....	.....	.....	.....	2,269
4,715	.....	1,161	8,724	.....	10,840	.....	356	590
2,652	336	8,530	238	12,839	1,751	210	7,139	609
70,367	6,190	64,791	8,962	12,839	12,591	210	7,495	3,468
80,901	35,779	211,780	27,555	475,171	47,148	53,396	588,114	61,410
64	.....	18	.....	.....	.....	137	300	15
80,965	35,779	211,798	27,555	475,171	47,148	53,533	588,414	61,425
15,350	9,075	66,573	4,949	105,993	12,195	6,868	38,183	10,431
.....	.....	.....	.....	.....	.....	.....	.....	.....
108,739	32,925	132,833	67,761	720,914	78,693	66,472	501,837	33,161
.....	.....	.....	.....	.....	.....	.....	.....	.....
124,089	42,000	199,406	72,710	826,907	90,888	73,340	540,020	43,592
<b>275,421</b>	<b>83,969</b>	<b>475,995</b>	<b>109,227</b>	<b>1,314,917</b>	<b>150,627</b>	<b>127,083</b>	<b>1,135,929</b>	<b>108,485</b>
83,124	20,453	126,843	21,732	469,764	50,867	30,221	318,254	20,315
270	637	1,573	750	2,339	2,500	583	4,334	5
<b>83,394</b>	<b>21,090</b>	<b>128,416</b>	<b>22,482</b>	<b>472,103</b>	<b>53,367</b>	<b>30,804</b>	<b>322,588</b>	<b>20,320</b>
49,497	15,372	86,291	19,594	311,486	32,669	18,879	197,142	12,180
.....	.....	.....	.....	.....	.....	.....	.....	.....
8,544	846	14,820	2,203	25,378	4,035	2,567	23,100	1,746
6,858	1,476	9,258	1,964	37,323	6,709	2,212	21,947	2,155
4,620	567	6,743	.....	.....	381	.....	.....	419
4,881	1,056	7,201	1,520	23,592	2,092	1,545	13,517	1,490
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>74,400</b>	<b>19,317</b>	<b>124,313</b>	<b>25,281</b>	<b>397,779</b>	<b>45,886</b>	<b>25,203</b>	<b>255,706</b>	<b>17,990</b>
<b>8,994</b>	<b>1,773</b>	<b>4,103</b>	<b>2,799</b>	<b>74,324</b>	<b>7,481</b>	<b>5,601</b>	<b>66,882</b>	<b>2,330</b>
1,035	227	1,232	403	3,387	572	270	3,115	234

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Cookstown	Cottam	Courtright	Creemore	Dashwood	Deep River
Population.....	650	649	548	882	433	5,130
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	50,511	52,586	28,193	53,293	27,429	559,165
Accumulated depreciation.....	9,020	13,046	4,946	5,555	4,807	101,967
Net fixed assets.....	41,491	39,540	23,247	47,738	22,622	457,198
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	5,453	4,818	554	1,267	3,702	63,570
Investment in government securities	5,000	3,000	4,000	5,000	.....	.....
Accounts receivable.....	763	13	206	793	88	2,734
Total current assets.....	11,216	7,831	4,760	7,060	3,790	66,304
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	95	32	.....	.....	6,235
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	202	.....	364	.....	8,259
Total other assets.....	.....	297	32	364	.....	14,494
Equity in Ontario Hydro Systems.....	27,443	23,121	22,351	49,556	35,657	24,643
	<b>80,150</b>	<b>70,789</b>	<b>50,390</b>	<b>104,718</b>	<b>62,069</b>	<b>562,639</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	2,000	.....	.....	.....	219,000
Accounts payable.....	958	1,415	5,307	12	97	938
Other.....	670	861	467	570	.....	15,590
Total liabilities.....	1,628	4,276	5,774	582	97	235,528
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	27,443	23,121	22,351	49,556	35,657	24,643
Other.....	50	.....	80	50	7	.....
Total reserves.....	27,493	23,121	22,431	49,606	35,664	24,643
<b>CAPITAL</b>						
Debentures redeemed.....	12,001	12,000	8,138	2,824	3,400	12,000
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	39,028	31,392	14,047	51,706	22,908	290,468
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	51,029	43,392	22,185	54,530	26,308	302,468
	<b>80,150</b>	<b>70,789</b>	<b>50,390</b>	<b>104,718</b>	<b>62,069</b>	<b>562,639</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	18,382	16,533	8,665	26,447	16,908	200,087
Other.....	233	92	236	455	8	2,435
Total revenue.....	<b>18,615</b>	<b>16,625</b>	<b>8,901</b>	<b>26,902</b>	<b>16,916</b>	<b>202,522</b>
<b>EXPENSE</b>						
Power purchased.....	12,979	9,936	6,947	17,753	12,192	109,262
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	1,722	2,262	2,563	1,621	1,548	13,461
Administration.....	1,310	1,920	1,003	1,770	1,542	14,594
Fixed charges—interest and principal	.....	601	225	306	.....	18,008
—depreciation.....	1,289	1,499	715	1,255	712	14,006
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>17,300</b>	<b>16,218</b>	<b>11,453</b>	<b>22,705</b>	<b>15,994</b>	<b>169,331</b>
Net income or net expense.....	<b>1,315</b>	<b>407</b>	<b>2,552</b>	<b>4,197</b>	<b>922</b>	<b>33,191</b>
Number of customers.....	250	244	191	363	183	1,383



## Statements for the Year Ended December 31, 1960

Delaware	Delhi	Deseronto	Dorchester	Drayton	Dresden	Drumbo	Dublin	Dundalk
452	3,434	1,770	937	620	2,311	399	271	875
\$ 27,853 7,790	\$ 291,511 56,763	\$ 121,071 27,932	\$ 56,357 13,596	\$ 54,380 9,745	\$ 185,374 27,434	\$ 29,716 10,064	\$ 34,602 7,735	\$ 59,972 11,870
20,063	234,748	93,139	42,761	44,635	157,940	19,652	26,867	48,102
638	13,297	2,758	2,943	3,497	4,628	1,266	642	7,579
.....	10,000	16,000	1,500	6,000	21,000	5,500	600	6,500
882	2,557	3,201	538	563	3,606	1,863	13	2,155
1,520	25,854	21,959	4,981	10,060	29,234	8,629	1,255	16,234
.....	17,510	10,202	.....	142	11,139	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
90	88	.....	.....	.....	760	.....	1,500	.....
90	17,598	10,202	.....	142	11,899	.....	1,500	.....
19,272	107,167	60,389	34,355	49,306	140,079	28,908	22,307	58,508
<b>40,945</b>	<b>385,367</b>	<b>185,689</b>	<b>82,097</b>	<b>104,143</b>	<b>339,152</b>	<b>57,189</b>	<b>51,929</b>	<b>122,844</b>
.....	.....	.....	2,261	.....	19,967	.....	.....	.....
241	3,835	406	334	231	261	88	1,219	1,664
20	4,792	1,221	419	325	2,694	115	90	270
261	8,627	1,627	3,014	556	22,922	203	1,309	1,934
19,272	107,167	60,389	34,355	49,306	140,079	28,908	22,307	58,508
30	75	.....	.....	.....	546	.....	.....	.....
19,302	107,242	60,389	34,355	49,306	140,625	28,908	22,307	58,508
4,000	85,000	15,000	5,039	9,500	31,456	4,500	6,200	5,727
.....	.....	.....	.....	.....	.....	.....	.....	.....
17,382	184,498	108,673	39,689	44,781	144,149	23,578	22,113	56,675
.....	.....	.....	.....	.....	.....	.....	.....	.....
21,382	269,498	123,673	44,728	54,281	175,605	28,078	28,313	62,402
<b>40,945</b>	<b>385,367</b>	<b>185,689</b>	<b>82,097</b>	<b>104,143</b>	<b>339,152</b>	<b>57,189</b>	<b>51,929</b>	<b>122,844</b>
14,681	143,657	52,699	21,142	22,993	99,226	12,770	11,936	32,899
119	2,773	1,091	243	276	4,450	376	27	240
<b>14,800</b>	<b>146,430</b>	<b>53,790</b>	<b>21,385</b>	<b>23,269</b>	<b>103,676</b>	<b>13,146</b>	<b>11,963</b>	<b>33,139</b>
9,905	92,160	37,084	14,401	15,266	62,042	10,055	9,022	22,170
.....	.....	.....	.....	.....	.....	.....	.....	.....
412	16,093	5,678	858	2,099	16,479	755	935	3,662
1,231	12,250	5,504	1,685	1,938	12,484	1,154	995	1,800
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2,111	.....	240	.....	3,942	.....	.....	.....
804	7,375	3,322	1,582	1,385	4,338	586	930	1,555
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>12,352</b>	<b>129,989</b>	<b>51,588</b>	<b>18,766</b>	<b>20,688</b>	<b>99,285</b>	<b>12,550</b>	<b>11,882</b>	<b>29,187</b>
<b>2,448</b>	<b>16,441</b>	<b>2,202</b>	<b>2,619</b>	<b>2,581</b>	<b>4,391</b>	<b>596</b>	<b>81</b>	<b>3,952</b>
136	1,364	638	327	263	895	174	111	426

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Dundas	Dunnville	Durham	Dutton	East York Twp.	Eganville
Population.....	12,790	5,261	2,084	777	68,209	1,454
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	1,093,411	404,057	151,353	44,937	4,031,343	163,973
Accumulated depreciation.....	167,943	66,961	17,588	13,947	591,572	40,309
Net fixed assets.....	925,468	337,096	133,765	30,990	3,439,771	123,664
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	801	28,580	17,672	4,683	64,522	10,484
Investment in government securities	9,000		4,000	5,500	350,000	10,000
Accounts receivable.....	2,487	35,670	934	743	135,706	452
Total current assets.....	12,288	64,250	22,606	10,926	550,228	20,936
<b>OTHER ASSETS</b>						
Inventory of stores.....	9,109	38,312	2,401	13	29,096	2,420
Sinking fund on local debentures.....					93,738	
Miscellaneous.....	1,424	828	132		7,218	1,993
Total other assets.....	10,533	39,140	2,533	13	130,052	4,413
Equity in Ontario Hydro Systems.....	608,631	322,493	133,087	71,736	2,164,462	9,356
	<b>1,556,920</b>	<b>762,979</b>	<b>291,991</b>	<b>113,665</b>	<b>6,284,513</b>	<b>158,369</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	403,000	52,100			602,017	41,449
Accounts payable.....	12,206	12,965	440	866	156,835	
Other.....	27,667	8,230	1,129	397	26,660	
Total liabilities.....	442,873	73,295	1,569	1,263	785,512	41,449
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	608,631	322,493	133,087	71,736	2,164,462	9,356
Other.....		810			8,266	
Total reserves.....	608,631	323,303	133,087	71,736	2,172,728	9,356
<b>CAPITAL</b>						
Debentures redeemed.....	86,969	88,400	25,324	8,407	675,022	58,551
Local sinking fund.....					93,738	
Accumulated net income invested in plant or held as working funds.....	418,447	277,981	132,011	32,259	2,557,513	49,013
Frequency standardization expense charged this year.....						
Total capital.....	505,416	366,381	157,335	40,666	3,326,273	107,564
	<b>1,556,920</b>	<b>762,979</b>	<b>291,991</b>	<b>113,665</b>	<b>6,284,513</b>	<b>158,369</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	460,878	231,456	91,170	23,140	1,878,757	57,101
Other.....	1,715	1,073	818	247	55,181	582
Total revenue.....	<b>462,593</b>	<b>232,529</b>	<b>91,988</b>	<b>23,387</b>	<b>1,933,938</b>	<b>57,683</b>
<b>EXPENSE</b>						
Power purchased.....	297,500	130,292	58,409	17,485	1,302,275	20,774
Local generation.....						11,887
Operation and maintenance.....	35,325	19,763	12,406	1,742	147,092	3,638
Administration.....	25,204	11,987	7,101	1,638	169,440	5,737
Fixed charges—interest and principal	35,407	5,358			76,583	7,035
—depreciation.....	23,603	9,696	3,400	826	95,389	4,458
—other.....						
Total expense.....	<b>417,039</b>	<b>177,096</b>	<b>81,316</b>	<b>21,691</b>	<b>1,790,779</b>	<b>53,529</b>
Net income or net expense.....	<b>45,554</b>	<b>55,433</b>	<b>10,672</b>	<b>1,696</b>	<b>143,159</b>	<b>4,154</b>
Number of customers.....	4,010	1,913	822	343	22,769	567

## Statements for the Year Ended December 31, 1960

Elmira	Elmvale	Elmwood	Elora	Embro	Erieau	Erie Beach	Erin	Essex
3,222	942	450	1,509	547	477	130	1,010	3,416
\$ 325,025 76,500	\$ 67,259 17,774	\$ 24,518 6,230	\$ 106,632 31,923	\$ 45,286 15,731	\$ 82,762 12,967	\$ 23,345 2,457	\$ 55,944 6,142	\$ 263,544 61,933
248,525	49,485	18,288	74,709	29,555	69,795	20,888	49,802	201,611
22,708	7,519	754	11,010	7,686	4,564	.....	3,871	6,191
.....	11,922	8,000	3,690	6,000	7,880	.....	5,100	.....
810	678	78	449	504	683	103	735	2,056
23,518	20,119	8,832	15,149	14,190	13,127	103	9,706	8,247
706	2,542	.....	172	.....	30	.....	.....	4,416
600	567	.....	.....	.....	1,552	517	258	1,427
1,306	3,109	.....	172	.....	1,582	517	258	5,843
343,882	59,807	20,572	139,196	45,541	38,481	7,015	15,650	155,213
<b>617,231</b>	<b>132,520</b>	<b>47,692</b>	<b>229,226</b>	<b>89,286</b>	<b>122,985</b>	<b>28,523</b>	<b>75,416</b>	<b>370,914</b>
.....	.....	.....	5,100	.....	11,171	3,259	4,350	20,400
87	472	1,181	125	116	.....	1,412	154	66
2,381	600	45	1,398	87	1,055	232	757	2,178
2,468	1,072	1,226	6,623	203	12,226	4,903	5,261	22,644
343,882	59,807	20,572	139,196	45,541	38,481	7,015	15,650	155,213
.....	50	.....	.....	33	22	81	60	1,111
343,882	59,857	20,572	139,196	45,574	38,503	7,096	15,710	156,324
37,169	6,544	6,106	14,762	7,500	10,713	5,041	10,150	31,110
233,712	65,047	19,788	68,645	36,009	61,543	11,483	44,295	160,836
270,881	71,591	25,894	83,407	43,509	72,256	16,524	54,445	191,946
<b>617,231</b>	<b>132,520</b>	<b>47,692</b>	<b>229,226</b>	<b>89,286</b>	<b>122,985</b>	<b>28,523</b>	<b>75,416</b>	<b>370,914</b>
191,073	31,223	7,895	53,697	22,252	28,310	5,438	32,334	104,665
3,030	613	413	70	552	720	4	404	930
<b>194,103</b>	<b>31,836</b>	<b>8,308</b>	<b>53,767</b>	<b>22,804</b>	<b>29,030</b>	<b>5,442</b>	<b>32,738</b>	<b>105,595</b>
148,744	20,172	6,474	34,608	15,137	15,838	2,514	21,678	58,911
13,351	2,520	828	6,778	1,029	4,698	840	3,395	15,886
13,251	3,255	1,114	3,835	2,037	2,811	1,042	3,932	13,732
.....	.....	.....	635	.....	1,895	684	890	4,932
9,065	1,968	727	3,116	1,436	2,029	542	1,266	7,134
184,411	27,915	9,143	48,972	19,639	27,271	5,622	31,161	100,595
<b>9,692</b>	<b>3,921</b>	<b>835</b>	<b>4,795</b>	<b>3,165</b>	<b>1,759</b>	<b>180</b>	<b>1,577</b>	<b>5,000</b>
1,143	406	138	530	232	350	139	405	1,205

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Finch	Flesherton	Fonthill
Population.....	144,777	2,977	3,894	403	495	2,321
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	14,614,671	245,184	302,261	39,973	34,744	155,524
Accumulated depreciation.....	1,511,006	56,013	49,723	8,843	10,732	23,966
Net fixed assets.....	13,103,665	189,171	252,538	31,130	24,012	131,558
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	768,234	250	10,228	3,142	1,452	3,058
Investment in government securities	37,000	5,000	15,769	10,000	20,000	.....
Accounts receivable.....	310,464	2,495	5,087	216	164	1,553
Total current assets.....	1,115,698	7,745	31,084	13,358	21,616	4,611
<b>OTHER ASSETS</b>						
Inventory of stores.....	241,954	1,414	508	.....	30	92
Sinking fund on local debentures...	579,864	.....	.....	.....	.....	.....
Miscellaneous.....	280,874	8	30	.....	.....	1,175
Total other assets.....	1,102,692	1,422	538	.....	30	1,267
Equity in Ontario Hydro Systems....	3,297,426	205,774	320,562	23,222	28,838	57,496
	<b>18,619,481</b>	<b>404,112</b>	<b>604,722</b>	<b>67,710</b>	<b>74,496</b>	<b>194,932</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	8,025,302	.....	23,000	.....	.....	15,550
Accounts payable.....	124,367	2,169	1,690	4,264	351	1,003
Other.....	346,138	2,380	3,732	263	148	9,110
Total liabilities.....	8,495,807	4,549	28,422	4,527	499	25,663
<b>RESERVES</b>						
Equity in Ontario Hydro Systems....	3,297,426	205,774	320,562	23,222	28,838	57,496
Other.....	10,048	14	338	.....	.....	.....
Total reserves.....	3,307,474	205,788	320,900	23,222	28,838	57,496
<b>CAPITAL</b>						
Debentures redeemed.....	1,491,795	20,000	51,961	7,000	5,831	45,798
Local sinking fund.....	579,864	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	4,744,541	173,775	203,439	32,961	39,328	65,975
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	6,816,200	193,775	255,400	39,961	45,159	111,773
	<b>18,619,481</b>	<b>404,112</b>	<b>604,722</b>	<b>67,710</b>	<b>74,496</b>	<b>194,932</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	6,736,647	132,397	196,136	12,689	15,617	69,525
Other.....	44,076	2,222	507	395	910	1,643
<b>Total revenue.....</b>	<b>6,780,723</b>	<b>134,619</b>	<b>196,643</b>	<b>13,084</b>	<b>16,527</b>	<b>71,168</b>
<b>EXPENSE</b>						
Power purchased.....	4,202,618	92,454	141,391	10,163	13,378	44,087
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	431,256	10,112	17,446	1,267	1,221	3,560
Administration.....	362,262	15,264	11,399	1,540	1,304	5,508
Fixed charges—interest and principal	709,165	.....	2,987	.....	.....	4,713
—depreciation.....	312,618	6,509	7,363	1,095	1,083	3,853
—other.....	.....	.....	.....	.....	.....	.....
<b>Total expense.....</b>	<b>6,017,919</b>	<b>124,339</b>	<b>180,586</b>	<b>14,065</b>	<b>16,986</b>	<b>61,721</b>
<b>Net income or net expense.....</b>	<b>762,804</b>	<b>10,280</b>	<b>16,057</b>	<b>981</b>	<b>459</b>	<b>9,447</b>
Number of customers.....	49,238	1,208	1,336	176	251	777



Statements for the Year Ended December 31, 1960

Forest	Forest Hill	Frankford	Galt	Georgetown	Glencoe	Goderich	Grand Bend	Grand Valley 641
2,065	20,225	1,576	26,945	10,015	1,144	6,232	906	
\$	\$	\$	\$	\$	\$	\$	\$	\$
129,293	1,732,833	94,266	2,756,500	882,463	108,039	633,061	146,489	50,277
41,376	471,891	10,756	838,923	106,430	30,441	147,067	30,687	15,769
87,917	1,260,942	83,510	1,917,577	776,033	77,598	485,994	115,802	34,508
9,930	100,336	7,405	51,210	11,024	3,469	54,138	542	9,168
47,768	197,438	.....	90,000	4,000	10,000	89,952	.....	5,500
1,793	14,454	1,389	16,778	3,240	2,699	6,495	4,575	180
59,491	312,228	8,794	157,988	18,264	16,168	150,585	5,117	14,848
4,951	44,215	.....	83,725	35,277	750	5,251	232	85
.....	.....	.....	.....	.....	.....	.....	.....	.....
184	1,254	.....	1,888	214	101	33	7,754	.....
5,135	45,469	.....	85,613	35,491	851	5,284	7,986	85
158,007	1,075,374	20,095	2,363,779	509,984	78,098	529,411	40,588	53,826
<b>310,550</b>	<b>2,694,013</b>	<b>112,399</b>	<b>4,524,957</b>	<b>1,339,772</b>	<b>172,715</b>	<b>1,171,274</b>	<b>169,493</b>	<b>103,267</b>
.....	.....	.....	116,000	313,499	.....	80,500	73,015	.....
36	2,789	.....	.....	1,319	733	277	3,341	2,412
1,270	38,065	1,469	57,243	33,336	555	12,417	5,545	.....
1,306	40,854	1,469	173,243	348,154	1,288	93,194	81,901	2,412
158,007	1,075,374	20,095	2,363,779	509,984	78,098	529,411	40,588	53,826
.....	424	.....	6,450	2,712	301	516	150	50
158,007	1,075,798	20,095	2,370,229	512,696	78,399	529,927	40,738	53,876
23,357	358,126	20,000	702,002	78,736	20,113	132,459	17,985	10,794
.....	.....	.....	.....	.....	.....	.....	.....	.....
127,880	1,219,235	70,835	1,279,483	400,186	72,915	415,694	28,869	36,185
.....	.....	.....	.....	.....	.....	.....	.....	.....
151,237	1,577,361	90,835	1,981,485	478,922	93,028	548,153	46,854	46,979
<b>310,550</b>	<b>2,694,013</b>	<b>112,399</b>	<b>4,524,957</b>	<b>1,339,772</b>	<b>172,715</b>	<b>1,171,274</b>	<b>169,493</b>	<b>103,267</b>
78,100	720,716	36,758	1,267,929	407,288	39,678	344,568	67,677	25,641
4,981	14,643	557	11,622	1,983	424	3,684	405	179
<b>83,081</b>	<b>735,359</b>	<b>37,315</b>	<b>1,279,551</b>	<b>409,271</b>	<b>40,102</b>	<b>348,252</b>	<b>68,082</b>	<b>25,820</b>
56,526	495,821	22,787	865,265	276,717	24,486	213,454	31,227	17,073
.....	.....	.....	.....	.....	.....	.....	.....	.....
11,838	51,430	3,133	132,794	25,509	4,357	21,895	7,587	2,432
8,494	66,504	4,574	66,231	32,709	5,807	29,291	10,477	1,672
.....	1,158	.....	33,968	29,330	.....	9,460	7,667	.....
2,317	49,680	2,236	81,447	19,959	3,222	17,408	3,678	1,541
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>79,175</b>	<b>664,593</b>	<b>32,730</b>	<b>1,179,705</b>	<b>384,224</b>	<b>37,872</b>	<b>291,508</b>	<b>60,636</b>	<b>22,718</b>
<b>3,906</b>	<b>70,766</b>	<b>4,585</b>	<b>99,846</b>	<b>25,047</b>	<b>2,230</b>	<b>56,744</b>	<b>7,446</b>	<b>3,102</b>
892	7,678	574	8,947	3,244	492	2,345	828	316

Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Granton	Gravenhurst	Grimsby	Guelph	Hagersville	Hamilton
Population.....	303	3,133	4,804	38,323	2,087	261,114
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	16,321	222,437	294,009	3,942,818	142,461	22,892,001
Accumulated depreciation.....	3,017	55,248	46,587	480,497	32,101	1,874,019
Net fixed assets.....	13,304	167,189	247,422	3,462,321	110,360	21,017,982
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	3,685		25,899	525	4,759	2,341,543
Investment in government securities.....		37,000			18,000	
Accounts receivable.....	422	4,658	1,619	44,298	896	1,165,085
Total current assets.....	4,107	41,658	27,518	44,823	23,655	3,506,628
<b>OTHER ASSETS</b>						
Inventory of stores.....		5,462		75,900	160	763,052
Sinking fund on local debentures.....						
Miscellaneous.....	41		1,948	18,163	84	91,652
Total other assets.....	41	5,462	1,948	94,063	244	854,704
Equity in Ontario Hydro Systems.....	26,242	201,441	119,700	2,822,772	281,018	27,939,469
	43,694	415,750	396,588	6,423,979	415,277	53,318,783
<b>LIABILITIES</b>						
Debentures outstanding.....	908		44,000	1,700,000		1,118,000
Accounts payable.....	91	133	2,933	86,899		1,254,973
Other.....	10	2,624	4,871	83,167	1,480	126,815
Total liabilities.....	1,009	2,757	51,804	1,870,066	1,480	2,499,788
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	26,242	201,441	119,700	2,822,772	281,018	27,939,469
Other.....	56	329		206		244,696
Total reserves.....	26,298	201,770	119,700	2,822,978	281,018	28,184,165
<b>CAPITAL</b>						
Debentures redeemed.....	5,735	44,279	86,344	393,637	8,000	6,591,892
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.....	10,652	166,944	138,740	1,337,298	124,779	16,042,938
Frequency standardization expense charged this year.....						
Total capital.....	16,387	211,223	225,084	1,730,935	132,779	22,634,830
	43,694	415,750	396,588	6,423,979	415,277	53,318,783
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	8,207	113,782	155,901	1,860,520	97,166	15,750,820
Other.....	15	3,637	743	16,693	1,016	223,991
Total revenue.....	8,222	117,419	156,644	1,877,213	98,182	15,974,811
<b>EXPENSE</b>						
Power purchased.....	4,672	92,149	105,102	1,221,054	66,036	12,425,338
Local generation.....						
Operation and maintenance.....	566	12,156	9,493	189,212	11,903	961,733
Administration.....	1,291	10,604	16,972	146,919	6,232	755,602
Fixed charges—interest and principal	308		3,975	136,187		113,705
—depreciation.....	437	6,102	7,059	86,620	3,871	483,324
—other.....						
Total expense.....	7,274	121,011	142,601	1,779,992	88,042	14,739,702
Net income or net expense.....	948	3,592	14,043	97,221	10,140	1,235,109
Number of customers.....	119	1,331	1,737	12,103	771	80,211

## Statements for the Year Ended December 31, 1960

Hanover	Harriston	Harrow	Hastings	Havelock	Hawkesbury	Hensall	Hespeler	Highgate
4,348	1,628	1,842	899	1,271	8,730	903	4,461	382
\$	\$	\$	\$	\$	\$	\$	\$	\$
329,046	148,957	201,176	75,561	90,337	541,148	111,105	375,204	31,323
97,456	26,547	37,838	22,180	24,085	86,145	28,335	42,077	11,740
231,590	122,410	163,338	53,381	66,252	455,003	82,770	333,127	19,583
.....	4,302	50	6,280	3,982	18,411	6,445	45,177	2,157
62,000	6,895	11,000	11,417	42,255	.....	4,000	40,000	3,000
5,258	1,709	222	374	680	3,080	1,094	32,259	150
67,258	12,906	11,272	18,071	46,917	21,491	11,539	117,436	5,307
15,891	100	3,920	.....	.....	24,018	26	270	.....
555	.....	.....	.....	1,480	1,649	191	520	.....
16,446	100	3,920	.....	1,480	25,667	217	790	.....
357,454	147,745	134,843	28,268	52,411	47,726	75,974	558,134	34,552
<b>672,748</b>	<b>283,161</b>	<b>313,373</b>	<b>99,720</b>	<b>167,060</b>	<b>549,887</b>	<b>170,500</b>	<b>1,009,487</b>	<b>59,442</b>
.....	2,300	.....	.....	16,500	203,000	.....	.....	.....
6,499	.....	4,269	332	672	156	118	928	.....
3,000	1,978	1,309	863	457	6,108	410	2,915	115
9,499	4,278	5,578	1,195	17,629	209,264	528	3,843	115
357,454	147,745	134,843	28,268	52,411	47,726	75,974	558,134	34,552
25	.....	31	.....	.....	.....	37	.....	.....
357,479	147,745	134,874	28,268	52,411	47,726	76,011	558,134	34,552
80,162	28,408	12,000	21,000	46,400	82,000	12,000	77,571	5,000
.....	.....	.....	.....	.....	.....	.....	.....	.....
225,608	102,730	160,921	49,257	50,620	210,897	81,961	369,939	19,775
.....	.....	.....	.....	.....	.....	.....	.....	.....
305,770	131,138	172,921	70,257	97,020	292,897	93,961	447,510	24,775
<b>672,748</b>	<b>283,161</b>	<b>313,373</b>	<b>99,720</b>	<b>167,060</b>	<b>549,887</b>	<b>170,500</b>	<b>1,009,487</b>	<b>59,442</b>
170,919	71,706	86,466	22,442	32,894	214,188	44,666	251,708	12,750
4,360	1,713	1,995	624	1,990	908	554	3,820	300
<b>175,279</b>	<b>73,419</b>	<b>88,461</b>	<b>23,066</b>	<b>34,884</b>	<b>215,096</b>	<b>45,220</b>	<b>255,528</b>	<b>13,050</b>
130,269	52,853	58,296	16,095	19,312	95,626	33,289	201,869	7,767
.....	.....	.....	.....	.....	.....	.....	.....	.....
14,873	8,037	9,402	1,364	2,470	22,065	2,978	21,678	1,113
15,380	6,133	9,920	4,469	4,357	31,130	3,380	10,613	922
.....	624	.....	.....	2,132	20,630	.....	.....	.....
9,745	3,695	4,850	1,379	2,595	13,220	3,188	8,179	1,040
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>170,267</b>	<b>71,342</b>	<b>82,468</b>	<b>23,307</b>	<b>30,866</b>	<b>182,671</b>	<b>42,835</b>	<b>242,339</b>	<b>10,842</b>
<b>5,012</b>	<b>2,077</b>	<b>5,993</b>	<b>241</b>	<b>4,018</b>	<b>32,425</b>	<b>2,385</b>	<b>13,189</b>	<b>2,208</b>
1,602	659	674	452	458	2,185	366	1,423	165

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Holstein	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
Population.....	177	3,200	7,174	1,014	755	1,914
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	13,010	216,636	578,879	195,903	58,396	132,872
Accumulated depreciation.....	3,128	36,896	122,364	11,296	15,299	21,909
Net fixed assets.....	9,882	179,740	456,515	184,607	43,097	110,963
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	2,307	18,754	17,316	2,137	6,484	4,677
Investment in government securities.....	500	24,925	.....	21,000	.....	12,000
Accounts receivable.....	41	4,738	4,721	3,004	402	3,319
Total current assets.....	2,848	48,417	22,037	26,141	6,886	19,996
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	7,952	16,686	1,125	.....	9,944
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	40	.....	2,318	.....	.....	.....
Total other assets.....	40	7,952	19,004	1,125	.....	9,944
Equity in Ontario Hydro Systems.....	11,133	289,447	723,706	39,008	56,700	114,681
	<b>23,903</b>	<b>525,556</b>	<b>1,221,262</b>	<b>250,881</b>	<b>106,683</b>	<b>255,584</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	.....	52,013	.....	.....	.....
Accounts payable.....	.....	.....	767	301	.....	10,865
Other.....	43	1,980	10,016	1,665	75	1,186
Total liabilities.....	43	1,980	62,796	1,966	75	12,051
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	11,133	289,447	723,706	39,008	56,700	114,681
Other.....	.....	.....	99	.....	.....	.....
Total reserves.....	11,133	289,447	723,805	39,008	56,700	114,681
<b>CAPITAL</b>						
Debentures redeemed.....	2,762	15,697	107,787	.....	10,500	19,507
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	9,965	218,432	326,874	209,907	39,408	109,345
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	12,727	234,129	434,661	209,907	49,908	128,852
	<b>23,903</b>	<b>525,556</b>	<b>1,221,262</b>	<b>250,881</b>	<b>106,683</b>	<b>255,584</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	5,756	150,393	317,644	47,913	22,147	80,757
Other.....	24	1,889	3,536	648	7	944
Total revenue.....	<b>5,780</b>	<b>152,282</b>	<b>321,180</b>	<b>48,561</b>	<b>22,154</b>	<b>81,701</b>
<b>EXPENSE</b>						
Power purchased.....	4,434	98,909	209,736	26,078	15,027	58,848
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	229	14,654	37,179	4,240	692	9,840
Administration.....	662	9,183	28,288	8,192	1,551	7,666
Fixed charges—interest and principal.....	.....	.....	6,018	.....	.....	.....
—depreciation.....	356	5,635	15,504	4,077	1,684	3,376
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>5,681</b>	<b>128,381</b>	<b>296,725</b>	<b>42,587</b>	<b>18,954</b>	<b>79,730</b>
Net income or net expense.....	<b>99</b>	<b>23,901</b>	<b>24,455</b>	<b>5,974</b>	<b>3,200</b>	<b>1,971</b>
Number of customers.....	96	1,215	2,353	395	285	764



Statements for the Year Ended December 31, 1960

Kincardine	Kingston	Kingsville	Kirkfield	Kitchener	Lakefield	Lambeth	Lanark	Lancaster
2,691	48,028	3,089	134	72,961	2,073	1,926	875	612
\$ 227,312 57,486	\$ 5,155,571 1,277,243	\$ 256,308 60,376	\$ 20,373 3,920	\$ 9,162,205 1,677,123	\$ 187,013 39,661	\$ 107,436 20,766	\$ 54,055 5,344	\$ 28,324 8,905
169,826	3,878,328	195,932	16,453	7,485,082	147,352	86,670	48,711	19,419
4,367	103,683	3,132	1,034	253,666	150	9,467	1,436	1,876
32,000	575,635	23,500	2,000	.....	32,000	.....	10,000	9,500
7,366	178,975	3,522	384	353,537	973	2,630	491	1,499
43,733	858,293	30,154	3,418	607,203	33,123	12,097	11,927	12,875
439	189,728	1,102	.....	174,778	6,165	.....	111	.....
740	137,150	147	520	6,301	3,738	.....	.....	.....
1,179	326,878	1,249	520	181,079	9,903	.....	111	.....
211,214	1,852,957	184,552	12,224	5,796,797	90,403	56,280	29,879	24,218
<b>425,952</b>	<b>6,916,456</b>	<b>411,887</b>	<b>32,615</b>	<b>14,070,161</b>	<b>280,781</b>	<b>155,047</b>	<b>90,628</b>	<b>56,512</b>
.....	1,340,000	.....	.....	472,500	.....	11,146	.....	.....
1,232	230,638	116	188	259,263	2,811	3,464	.....	83
1,053	6,383	4,110	6	119,850	1,090	1,486	190	458
2,285	1,577,021	4,226	194	851,613	3,901	16,096	190	541
211,214	1,852,957	184,552	12,224	5,796,797	90,403	56,280	29,879	24,218
40	111,279	326	200	271,288	.....	.....	.....	.....
211,254	1,964,236	184,878	12,424	6,068,085	90,403	56,280	29,879	24,218
60,000	464,839	33,500	5,766	1,854,744	33,500	21,354	7,317	8,917
152,413	2,910,360	189,283	14,231	5,295,719	152,977	61,317	53,242	22,836
212,413	3,375,199	222,783	19,997	7,150,463	186,477	82,671	60,559	31,753
<b>425,952</b>	<b>6,916,456</b>	<b>411,887</b>	<b>32,615</b>	<b>14,070,161</b>	<b>280,781</b>	<b>155,047</b>	<b>90,628</b>	<b>56,512</b>
121,012	2,026,083	103,731	5,857	3,748,456	64,524	53,883	15,649	13,773
2,072	43,254	2,064	111	44,771	2,225	263	922	530
<b>123,084</b>	<b>2,069,337</b>	<b>105,795</b>	<b>5,968</b>	<b>3,793,227</b>	<b>66,749</b>	<b>54,146</b>	<b>16,571</b>	<b>14,303</b>
84,637	1,271,212	67,164	2,960	2,288,117	39,872	36,163	11,453	10,348
14,977	173,169	8,823	853	445,458	5,096	2,668	1,187	1,204
7,111	244,086	14,994	651	250,748	10,166	4,013	1,473	2,177
.....	136,960	739	.....	191,974	.....	2,694	.....	.....
6,360	142,782	6,978	541	197,954	4,810	2,802	1,280	876
<b>113,085</b>	<b>1,968,209</b>	<b>98,698</b>	<b>5,005</b>	<b>3,374,251</b>	<b>59,944</b>	<b>48,340</b>	<b>15,393</b>	<b>14,605</b>
<b>9,999</b>	<b>101,128</b>	<b>7,097</b>	<b>963</b>	<b>418,976</b>	<b>6,805</b>	<b>5,806</b>	<b>1,178</b>	<b>302</b>
1,205	15,497	1,249	102	23,324	729	604	281	208

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Leamington	Lindsay	Listowel	London	London Twp.	Long Branch
Population.....	8,602	11,052	3,665	119,616	43,953	10,783
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Plant and facilities at cost.....	667,439	934,350	360,422	10,509,700	162,927	608,418
Accumulated depreciation.....	147,190	171,747	115,750	2,587,025	30,278	63,250
Net fixed assets.....	520,249	762,603	244,672	7,922,675	132,649	545,168
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	22,910	8,112	40,197	122,253	4,120	7,788
Investment in government securities.....	2,000	29,454	20,000	306,500	.....	3,000
Accounts receivable.....	4,239	4,458	960	396,324	346	19,234
Total current assets.....	29,149	42,024	61,157	825,077	4,466	30,022
<b>OTHER ASSETS</b>						
Inventory of stores.....	21,247	18,959	661	312,583	.....	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	.....	.....	7,021	214	204
Total other assets.....	21,247	18,959	661	319,604	214	204
Equity in Ontario Hydro Systems.....	484,363	623,793	347,183	9,132,824	125,418	331,234
	<b>1,055,008</b>	<b>1,447,379</b>	<b>653,673</b>	<b>18,200,180</b>	<b>262,747</b>	<b>906,628</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	64,000	.....	42,992	413,000	20,312	.....
Accounts payable.....	915	102	3,840	415,964	36	122
Other.....	14,300	7,883	5,447	63,767	1,083	9,788
Total liabilities.....	79,215	7,985	52,279	892,731	21,431	9,910
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	484,363	623,793	347,183	9,132,824	125,418	331,234
Other.....	2,936	.....	.....	301,153	.....	1,147
Total reserves.....	487,299	623,793	347,183	9,433,977	125,418	332,381
<b>CAPITAL</b>						
Debentures redeemed.....	61,000	130,000	69,842	1,818,900	31,416	40,305
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	427,494	685,601	184,369	6,054,572	84,482	524,032
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	488,494	815,601	254,211	7,873,472	115,898	564,337
	<b>1,055,008</b>	<b>1,447,379</b>	<b>653,673</b>	<b>18,200,180</b>	<b>262,747</b>	<b>906,628</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	362,286	455,611	161,268	4,015,853	94,987	387,851
Other.....	1,584	21,362	1,329	168,476	1,247	363
Total revenue.....	<b>363,870</b>	<b>476,973</b>	<b>162,597</b>	<b>4,184,329</b>	<b>96,234</b>	<b>388,214</b>
<b>EXPENSE</b>						
Power purchased.....	244,510	311,671	122,251	2,579,246	71,306	255,829
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	23,426	59,527	10,492	452,239	3,924	23,904
Administration.....	36,252	43,437	11,533	369,941	7,916	35,166
Fixed charges—interest and principal.....	5,403	.....	6,518	45,974	3,059	2,419
—depreciation.....	17,332	22,506	6,711	292,448	4,190	13,696
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>326,923</b>	<b>437,141</b>	<b>157,505</b>	<b>3,739,848</b>	<b>90,395</b>	<b>331,014</b>
Net income or net expense.....	<b>36,947</b>	<b>39,832</b>	<b>5,092</b>	<b>444,481</b>	<b>5,839</b>	<b>57,200</b>
Number of customers.....	3,280	3,754	1,528	33,107	997	4,243

## Statements for the Year Ended December 31, 1960

L'Orignal 1,145	Lucan 945	Lucknow 1,009	Lynden 530	Madoc 1,488	Magneta- wan 256	Markdale 1,113	Markham 4,319	Marmora 1,358
\$ 79,697 22,982	\$ 74,865 23,430	\$ 92,015 14,271	\$ 32,877 9,924	\$ 134,990 33,182	\$ 24,605 6,151	\$ 64,613 10,870	\$ 304,880 49,998	\$ 92,451 29,179
56,715	51,435	77,744	22,953	101,808	18,454	53,743	254,882	63,272
10,209	10,211	8,085	6,949	15,978	1,933	5,231	.....	5,690
.....	5,500	9,000	2,000	21,775	8,920	5,592	.....	3,000
826	142	664	749	1,769	44	209	3,726	616
11,035	15,853	17,749	9,698	39,522	10,897	11,032	3,726	9,306
.....	36	.....	.....	4,975	332	.....	907	2,527
.....	.....	.....	.....	.....	.....	.....	.....	.....
3,639	.....	1,180	.....	925	.....	150	252	.....
3,639	36	1,180	.....	5,900	332	150	1,159	2,527
7,542	73,265	89,674	44,450	60,181	2,907	52,488	123,660	42,642
<b>78,931</b>	<b>140,589</b>	<b>186,347</b>	<b>77,101</b>	<b>207,411</b>	<b>32,590</b>	<b>117,413</b>	<b>383,427</b>	<b>117,747</b>
20,000	.....	.....	.....	.....	15,300	.....	46,831	.....
.....	.....	1,146	145	.....	18	409	4,900	.....
330	779	.....	17	1,087	.....	652	5,423	1,175
20,330	779	1,146	162	1,087	15,318	1,061	57,154	1,175
7,542	73,265	89,674	44,450	60,181	2,907	52,488	123,660	42,642
.....	.....	280	.....	.....	.....	.....	187	.....
7,542	73,265	89,954	44,450	60,181	2,907	52,488	123,847	42,642
8,000	11,214	17,614	4,495	14,000	8,700	6,370	21,974	15,092
.....	.....	.....	.....	.....	.....	.....	.....	.....
43,059	55,331	77,633	27,994	132,143	5,665	57,494	180,452	58,838
.....	.....	.....	.....	.....	.....	.....	.....	.....
51,059	66,545	95,247	32,489	146,143	14,365	63,864	202,426	73,930
<b>78,931</b>	<b>140,589</b>	<b>186,347</b>	<b>77,101</b>	<b>207,411</b>	<b>32,590</b>	<b>117,413</b>	<b>383,427</b>	<b>117,747</b>
25,422	33,207	42,581	15,572	46,832	6,937	35,578	166,929	46,699
574	369	283	223	2,293	329	56	1,031	362
<b>25,996</b>	<b>33,576</b>	<b>42,864</b>	<b>15,795</b>	<b>49,125</b>	<b>7,266</b>	<b>35,634</b>	<b>167,960</b>	<b>47,061</b>
13,453	24,217	28,463	11,899	32,377	2,882	26,647	112,670	27,792
.....	.....	.....	.....	.....	.....	.....	.....	.....
2,026	687	3,255	581	1,573	536	2,907	8,596	7,388
2,781	1,984	4,386	1,388	4,586	671	1,898	13,268	3,087
2,056	.....	.....	.....	.....	2,174	.....	6,067	.....
2,263	2,321	2,244	998	3,720	657	1,666	7,332	1,706
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>22,579</b>	<b>29,209</b>	<b>38,348</b>	<b>14,866</b>	<b>42,256</b>	<b>6,920</b>	<b>33,118</b>	<b>147,933</b>	<b>39,973</b>
<b>3,417</b>	<b>4,367</b>	<b>4,516</b>	<b>929</b>	<b>6,869</b>	<b>346</b>	<b>2,516</b>	<b>20,027</b>	<b>7,088</b>
358	355	471	167	596	107	440	1,334	522

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Martintown	Maxville	Meaford	Merlin	Merrick- ville 891	Merritton
Population.....	430	813	3,672	612	891	6,497
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	27,172	66,221	273,556	65,534	69,886	672,377
Accumulated depreciation.....	6,848	10,712	59,474	22,743	4,355	83,824
Net fixed assets.....	20,324	55,509	214,082	42,791	65,531	588,553
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	9,537	4,475	28,870	9,726	1,862	3,876
Investment in government securities .....		1,500				87,000
Accounts receivable.....	1,238	817	2,053	451	4,937	4,182
Total current assets.....	10,775	6,792	30,923	10,177	6,799	95,058
<b>OTHER ASSETS</b>						
Inventory of stores.....			6,902	535		18,787
Sinking fund on local debentures.....						
Miscellaneous.....			828		352	193
Total other assets.....			7,730	535	352	18,980
Equity in Ontario Hydro Systems.....	11,208	42,135	192,708	41,414	14,810	1,268,542
	<b>42,307</b>	<b>104,436</b>	<b>445,443</b>	<b>94,917</b>	<b>87,492</b>	<b>1,971,133</b>
<b>LIABILITIES</b>						
Debentures outstanding.....					14,600	
Accounts payable.....	886		350	403	1,655	1,192
Other.....	126	147	5,376	158	825	3,380
Total liabilities.....	1,012	147	5,726	561	17,080	4,572
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	11,208	42,135	192,708	41,414	14,810	1,268,542
Other.....	81	265	100	14		
Total reserves.....	11,289	42,400	192,808	41,428	14,810	1,268,542
<b>CAPITAL</b>						
Debentures redeemed.....	5,346	13,643	47,725	13,122	10,400	32,186
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.....	24,660	48,246	199,184	39,806	45,202	665,833
Frequency standardization expense charged this year.....						
Total capital.....	30,006	61,889	246,909	52,928	55,602	698,019
	<b>42,307</b>	<b>104,436</b>	<b>445,443</b>	<b>94,917</b>	<b>87,492</b>	<b>1,971,133</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	8,549	24,131	146,605	19,340	24,500	842,780
Other.....	66	229	1,872	2,778	72	3,678
Total revenue.....	<b>8,615</b>	<b>24,360</b>	<b>148,477</b>	<b>22,118</b>	<b>24,572</b>	<b>846,458</b>
<b>EXPENSE</b>						
Power purchased.....	5,429	17,488	105,792	11,735	16,037	732,818
Local generation.....						
Operation and maintenance.....	271	2,144	12,714	2,088	2,672	24,739
Administration.....	832	1,165	12,123	4,343	2,457	33,944
Fixed charges—interest and principal .....					1,753	
—depreciation.....	782	1,669	7,217	2,090	1,660	15,297
—other.....						
Total expense.....	<b>7,314</b>	<b>22,466</b>	<b>137,846</b>	<b>20,256</b>	<b>24,579</b>	<b>806,798</b>
Net income or net expense.....	<b>1,301</b>	<b>1,894</b>	<b>10,631</b>	<b>1,862</b>	<b>7</b>	<b>39,660</b>
Number of customers.....	125	313	1,510	255	355	2,001



Statements for the Year Ended December 31, 1960

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell	Moorefield	Morrisburg
8,615	836	842	5,394	1,075	16,380	2,161	303	1,912
\$ 693,191 237,027	\$ 44,364 5,962	\$ 56,712 11,255	\$ 528,732 86,427	\$ 82,498 16,918	\$ 992,543 226,110	\$ 247,197 53,718	\$ 23,418 6,444	\$ 218,418 25,344
456,164	38,402	45,457	442,305	65,580	766,433	193,479	16,974	193,074
2,363	2,697	5,884	9,369	10,810	11,439	693	364	34,681
140,000	12,500	11,000	.....	13,000	115,000	23,000	1,000	11,000
53,919	43	1,107	2,887	719	24,505	2,961	116	1,100
196,282	15,240	17,991	12,256	24,529	150,944	26,654	1,480	46,781
8,399	.....	983	4,977	60	20,053	11,336	20	5,918
2,694	.....	1,334	515	.....	1,564	530	228	.....
11,093	.....	2,317	5,492	60	21,617	11,866	248	5,918
851,543	30,542	21,699	417,592	150,089	657,764	187,565	24,764	61,803
<b>1,515,082</b>	<b>84,184</b>	<b>87,464</b>	<b>877,645</b>	<b>240,258</b>	<b>1,596,758</b>	<b>419,564</b>	<b>43,466</b>	<b>307,576</b>
.....	.....	.....	72,226	11,800	81,000	16,100	.....	.....
2,100	.....	89	2,823	208	4,158	204	12	665
2,917	220	881	7,348	282	49,056	1,472	402	2,690
5,017	220	970	82,397	12,290	134,214	17,776	414	3,355
851,543	30,542	21,699	417,592	150,089	657,764	187,565	24,764	61,803
501	.....	.....	454	.....	816	875	.....	.....
852,044	30,542	21,699	418,046	150,089	658,580	188,440	24,764	61,803
111,945	12,304	9,000	51,900	12,460	169,971	31,009	4,500	31,636
546,076	41,118	55,795	325,302	65,419	633,993	182,339	13,788	210,782
658,021	53,422	64,795	377,202	77,879	803,964	213,348	18,288	242,418
<b>1,515,082</b>	<b>84,184</b>	<b>87,464</b>	<b>877,645</b>	<b>240,258</b>	<b>1,596,758</b>	<b>419,564</b>	<b>43,466</b>	<b>307,576</b>
315,203	26,079	24,144	242,949	53,588	467,117	110,409	10,650	67,886
7,178	478	600	3,081	571	12,880	2,638	69	3,034
<b>322,381</b>	<b>26,557</b>	<b>24,744</b>	<b>246,030</b>	<b>54,159</b>	<b>479,997</b>	<b>113,047</b>	<b>10,719</b>	<b>70,920</b>
249,181	19,887	17,199	159,501	37,243	324,047	76,088	8,633	44,838
33,010	3,011	3,055	20,613	4,587	26,785	10,198	712	10,944
22,893	1,928	2,771	23,726	4,796	68,480	12,127	588	13,270
13,493	1,094	1,462	7,057	1,199	9,585	1,892	.....	.....
.....	.....	.....	12,462	2,141	26,234	6,394	690	5,036
<b>318,577</b>	<b>25,920</b>	<b>24,487</b>	<b>223,359</b>	<b>49,966</b>	<b>455,131</b>	<b>106,699</b>	<b>10,623</b>	<b>74,088</b>
<b>3,804</b>	<b>637</b>	<b>257</b>	<b>22,671</b>	<b>4,193</b>	<b>24,866</b>	<b>6,348</b>	<b>96</b>	<b>3,168</b>
2,851	305	338	1,720	473	6,641	912	124	744

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Mount Brydges 957	Mount Forest 2,571	Napanee 4,505	Neustadt 505	Newboro 291	Newburgh 573
Population.....						
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Plant and facilities at cost.....	66,049	170,062	340,608	36,467	29,870	52,124
Accumulated depreciation.....	9,376	37,377	71,985	13,453	5,308	16,925
Net fixed assets.....	56,673	132,685	268,623	23,014	24,562	35,199
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	3,048	17,642	100	794	281	4,623
Investment in government securities.....		20,000	27,000	19,200	3,000	3,000
Accounts receivable.....	425	3,790	18,344	351	295	335
Total current assets.....	3,473	41,432	45,444	20,345	3,576	7,958
<b>OTHER ASSETS</b>						
Inventory of stores.....		1,497	11,293			
Sinking fund on local debentures.....						
Miscellaneous.....	509	50	2,825		1,996	248
Total other assets.....	509	1,547	14,118		1,996	248
Equity in Ontario Hydro Systems.....	32,946	159,828	267,397	25,885	3,324	8,397
	<b>93,601</b>	<b>335,492</b>	<b>595,582</b>	<b>69,244</b>	<b>33,458</b>	<b>51,802</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	14,600				8,897	3,750
Accounts payable.....	3,683		11,465	170	81	
Other.....	422	911	5,501	214	129	196
Total liabilities.....	18,705	911	16,966	384	9,107	3,946
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	32,946	159,828	267,397	25,885	3,324	8,397
Other.....	94					
Total reserves.....	33,040	159,828	267,397	25,885	3,324	8,397
<b>CAPITAL</b>						
Debentures redeemed.....	4,602	21,627	70,000	15,504	8,103	10,250
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.....	37,254	153,126	241,219	27,471	12,924	29,209
Frequency standardization expense charged this year.....						
Total capital.....	41,856	174,753	311,219	42,975	21,027	39,459
	<b>93,601</b>	<b>335,492</b>	<b>595,582</b>	<b>69,244</b>	<b>33,458</b>	<b>51,802</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	25,376	98,211	172,434	10,841	6,725	18,381
Other.....	14	1,949	11,327	898	250	186
Total revenue.....	<b>25,390</b>	<b>100,160</b>	<b>183,761</b>	<b>11,739</b>	<b>6,975</b>	<b>18,567</b>
<b>EXPENSE</b>						
Power purchased.....	14,642	71,943	124,613	10,000	3,380	9,529
Local generation.....						
Operation and maintenance.....	4,379	7,732	20,212	1,118	774	855
Administration.....	2,777	8,571	26,044	1,852	1,067	2,108
Fixed charges—interest and principal	1,352				1,143	826
—depreciation.....	1,528	4,676	8,909	752	776	980
—other.....						
Total expense.....	<b>24,678</b>	<b>92,922</b>	<b>179,778</b>	<b>13,722</b>	<b>7,140</b>	<b>14,298</b>
Net income or net expense.....	<b>712</b>	<b>7,238</b>	<b>3,983</b>	<b>1,983</b>	<b>165</b>	<b>4,269</b>
Number of customers.....	355	1,018	1,686	205	145	192

## Statements for the Year Ended December 31, 1960

Newbury 343	Newcastle 1,198	New Hamburg 2,100	Newmarket 8,055	New Toronto 11,664	Niagara 2,669	Niagara Falls 22,575	North York Twp. 244,145	Norwich 1,705
\$ 22,871 9,022	\$ 113,356 27,068	\$ 145,302 28,507	\$ 622,294 124,602	\$ 930,395 165,387	\$ 248,667 44,452	\$ 2,297,192 543,309	\$ 19,366,785 2,404,731	\$ 99,911 28,138
13,849	86,288	116,795	497,692	765,008	204,215	1,753,883	16,962,054	71,773
3,864	950	6,776	45,823	129,609	12,257	100,066	986,678	4,578
6,500	7,000	23,000	.....	80,000	10,000	55,000	10,000	7,500
853	240	1,300	10,700	7,852	2,311	13,058	218,584	2,524
11,217	8,190	31,076	56,523	217,461	24,568	168,124	1,215,262	14,602
20	2,251	1,959	38	20,768	13,752	90,462	696,601	5,812
.....	.....	.....	.....	.....	.....	.....	436,073	.....
193	284	.....	158	1,426	38	2,240	239,054	131
213	2,535	1,959	196	22,194	13,790	92,702	1,371,728	5,943
16,905	41,685	182,878	216,892	2,171,072	161,133	2,287,579	4,260,812	135,164
<b>42,184</b>	<b>138,698</b>	<b>332,708</b>	<b>771,303</b>	<b>3,175,735</b>	<b>403,706</b>	<b>4,302,288</b>	<b>23,809,856</b>	<b>227,482</b>
.....	14,000	10,000	59,653	.....	24,121	.....	8,029,349	.....
328	262	.....	7,880	1,320	25	262	178,525	2,400
100	689	239	7,196	20,403	2,783	45,567	653,337	1,409
428	14,951	10,239	74,729	21,723	26,929	45,829	8,861,211	3,809
16,905	41,685	182,878	216,892	2,171,072	161,133	2,287,579	4,260,812	135,164
.....	67	34	3,850	60	382	1,170	8,427	161
16,905	41,752	182,912	220,742	2,171,132	161,515	2,288,749	4,269,239	135,325
9,754	15,000	22,264	35,255	8,000	56,387	690,243	2,462,303	13,756
.....	.....	.....	.....	.....	.....	.....	436,073	.....
15,097	66,995	117,293	440,577	974,880	158,875	1,277,467	7,781,030	74,592
.....	.....	.....	.....	.....	.....	.....	.....	.....
24,851	81,995	139,557	475,832	982,880	215,262	1,967,710	10,679,406	88,348
<b>42,184</b>	<b>138,698</b>	<b>332,708</b>	<b>771,303</b>	<b>3,175,735</b>	<b>403,706</b>	<b>4,302,288</b>	<b>23,809,856</b>	<b>227,482</b>
7,851	46,141	76,884	357,416	1,259,277	104,309	1,001,916	9,445,822	60,747
346	782	833	2,035	8,812	1,318	6,995	112,615	2,384
<b>8,197</b>	<b>46,923</b>	<b>77,717</b>	<b>359,451</b>	<b>1,268,089</b>	<b>105,627</b>	<b>1,008,911</b>	<b>9,558,437</b>	<b>63,131</b>
4,533	29,479	55,805	247,861	1,103,348	71,163	628,180	6,028,974	37,818
.....	.....	.....	.....	.....	.....	.....	.....	.....
604	5,311	6,418	19,824	38,932	13,465	142,693	715,167	10,479
822	5,230	4,965	18,125	54,713	8,675	75,522	804,789	5,111
.....	1,850	1,440	6,429	.....	2,581	.....	722,486	243
495	2,963	3,774	15,754	23,576	6,297	63,531	434,029	2,694
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>6,454</b>	<b>44,833</b>	<b>72,402</b>	<b>307,993</b>	<b>1,220,569</b>	<b>102,181</b>	<b>909,926</b>	<b>8,705,445</b>	<b>56,345</b>
<b>1,743</b>	<b>2,090</b>	<b>5,315</b>	<b>51,458</b>	<b>47,520</b>	<b>3,446</b>	<b>98,985</b>	<b>852,992</b>	<b>6,786</b>
130	469	711	2,726	4,052	1,068	7,480	79,727	673

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Norwood	Oakville- Trafalgar	Oil Springs	Omemeë	Orangeville	Orillia
Population.....	1,110	40,540	480	813	4,643	14,515
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Plant and facilities at cost.....	104,024	3,475,563	60,143	65,976	292,276	4,501,507
Accumulated depreciation.....	28,928	333,057	20,532	20,846	62,620	923,687
Net fixed assets.....	75,096	3,142,506	39,611	45,130	229,656	3,577,820
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	9,802	208,406	1,432	.....	1,176	102,847
Investment in government securities	15,000	.....	11,000	11,000	.....	105,978
Accounts receivable.....	2,922	85,927	31	15	3,106	56,441
Total current assets.....	27,724	294,333	12,463	11,015	4,282	265,266
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	94,991	524	2,893	6,179	65,519
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	39,029	1,324	.....	35	865
Total other assets.....	.....	134,020	1,848	2,893	6,214	66,384
Equity in Ontario Hydro Systems.....	40,367	609,230	74,472	24,001	233,092	102,033
	<b>143,187</b>	<b>4,180,089</b>	<b>128,394</b>	<b>83,039</b>	<b>473,244</b>	<b>4,011,503</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	1,516,448	.....	.....	.....	970,000
Accounts payable.....	.....	19,207	214	795	4,158	12,042
Other.....	964	103,875	40	237	3,247	14,494
Total liabilities.....	964	1,639,530	254	1,032	7,405	996,536
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	40,367	609,230	74,472	24,001	233,092	102,033
Other.....	.....	4,119	.....	45	50	107,080
Total reserves.....	40,367	613,349	74,472	24,046	233,142	209,113
<b>CAPITAL</b>						
Debentures redeemed.....	55,100	306,762	16,721	12,000	25,594	1,642,000
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	46,756	1,620,448	36,947	45,961	207,103	1,163,854
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	101,856	1,927,210	53,668	57,961	232,697	2,805,854
	<b>143,187</b>	<b>4,180,089</b>	<b>128,394</b>	<b>83,039</b>	<b>473,244</b>	<b>4,011,503</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	31,142	1,813,304	16,821	24,630	176,641	739,758
Other.....	931	49,978	1,463	536	644	6,229
Total revenue.....	<b>32,073</b>	<b>1,863,282</b>	<b>18,284</b>	<b>25,166</b>	<b>177,285</b>	<b>745,987</b>
<b>EXPENSE</b>						
Power purchased.....	22,686	1,131,286	11,142	15,639	117,554	196,284
Local generation.....	.....	.....	.....	.....	.....	141,424
Operation and maintenance.....	1,651	128,490	3,128	4,543	12,581	99,806
Administration.....	2,250	170,697	3,103	2,670	13,302	83,019
Fixed charges—interest and principal	.....	137,470	.....	.....	.....	100,749
—depreciation.....	3,049	72,387	1,167	1,247	7,878	85,776
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>29,636</b>	<b>1,640,330</b>	<b>18,540</b>	<b>24,099</b>	<b>151,315</b>	<b>707,058</b>
Net income or net expense.....	<b>2,437</b>	<b>222,952</b>	<b>256</b>	<b>1,067</b>	<b>25,970</b>	<b>38,929</b>
Number of customers.....	412	10,840	225	302	1,694	5,421



## Statements for the Year Ended December 31, 1960

Orono	Oshawa	Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
897	60,135	281,542	726	17,657	744	1,526	5,778	1,136
\$ 64,532 12,969	\$ 6,359,326 1,181,080	\$ 28,839,737 5,708,522	\$ 53,306 19,456	\$ 1,368,669 225,392	\$ 68,779 16,379	\$ 164,559 41,948	\$ 505,227 124,743	\$ 121,200 19,783
51,563	5,178,246	23,131,215	33,850	1,143,277	52,400	122,611	380,484	101,417
1,131	326,119	103,518	4,032	41,814	3,476	31,060	18,012	4,480
8,000	400,000	543,000	.....	70,000	14,000	.....	.....	6,000
448	245,670	879,336	213	55,729	190	1,062	2,581	2,673
9,579	971,789	1,525,854	4,245	167,543	17,666	4,122	20,593	13,153
3,028	114,509	350,645	.....	44,322	.....	9,750	527	560
40	7,739	102,995	.....	1,703	390	.....	249	59
3,068	122,248	453,640	.....	46,025	390	9,750	776	619
20,304	3,639,181	5,659,938	38,161	1,124,277	48,293	165,842	438,826	85,057
<b>84,514</b>	<b>9,911,464</b>	<b>30,770,647</b>	<b>76,256</b>	<b>2,481,122</b>	<b>118,749</b>	<b>302,325</b>	<b>840,679</b>	<b>200,246</b>
.....	357,000	5,376,000	.....	38,000	.....	15,000	89,400	8,500
.....	249,872	661,992	262	41,144	65	547	413	2,055
360	90,120	882	254	20,865	412	1,223	2,399	603
360	696,992	6,038,874	516	100,009	477	16,770	92,212	11,158
20,304	3,639,181	5,659,938	38,161	1,124,277	48,293	165,842	438,826	85,057
84	8,192	459,069	14	1,930	.....	37	.....	.....
20,388	3,647,373	6,119,007	38,175	1,126,207	48,293	165,879	438,826	85,057
8,000	445,622	4,604,000	4,500	169,718	13,623	27,000	106,107	21,229
.....	.....	.....	.....	.....	.....	.....	.....	.....
55,766	5,121,477	14,008,766	33,065	1,085,188	56,356	92,676	203,534	82,802
.....	.....	.....	.....	.....	.....	.....	.....	.....
63,766	5,567,099	18,612,766	37,565	1,254,906	69,979	119,676	309,641	104,031
<b>84,514</b>	<b>9,911,464</b>	<b>30,770,647</b>	<b>76,256</b>	<b>2,481,122</b>	<b>118,749</b>	<b>302,325</b>	<b>840,679</b>	<b>200,246</b>
27,965	2,855,956	10,149,428	22,152	630,491	26,664	59,942	204,954	52,964
1,089	87,560	203,353	173	23,830	599	53	404	635
<b>29,054</b>	<b>2,943,516</b>	<b>10,352,781</b>	<b>22,325</b>	<b>654,321</b>	<b>27,263</b>	<b>59,995</b>	<b>205,358</b>	<b>53,599</b>
17,164	2,058,850	6,054,829	15,224	413,678	16,413	41,068	131,079	35,076
.....	.....	218,868	.....	.....	.....	.....	.....	.....
2,191	176,697	959,988	1,376	78,723	1,880	6,214	20,352	4,950
5,295	180,024	717,233	1,743	75,523	3,728	8,049	14,463	5,486
.....	59,838	545,939	.....	8,720	.....	860	9,200	1,022
1,674	158,720	725,389	1,731	32,120	1,914	4,797	14,375	2,968
.....	.....	22,506	.....	.....	.....	.....	.....	.....
<b>26,324</b>	<b>2,634,129</b>	<b>9,244,752</b>	<b>20,074</b>	<b>608,764</b>	<b>23,935</b>	<b>60,988</b>	<b>189,469</b>	<b>49,502</b>
<b>2,730</b>	<b>309,387</b>	<b>1,108,029</b>	<b>2,251</b>	<b>45,557</b>	<b>3,328</b>	<b>993</b>	<b>15,889</b>	<b>4,097</b>
364	19,255	87,629	287	6,125	327	625	1,973	498

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Parry Sound	Pene- tanguishene	Perth	Peter- borough	Petrolia	Pickering
Population.....	6,057	4,856	5,831	46,424	3,649	1,764
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Plant and facilities at cost.....	837,456	282,424	363,092	5,345,454	329,187	105,818
Accumulated depreciation.....	201,611	91,123	103,422	1,236,753	88,693	17,968
Net fixed assets.....	635,845	191,301	259,670	4,108,701	240,494	87,850
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	20,220	11,087	12,442	88,798	5,543	4,905
Investment in government securities	16,362	65,000	81,000		15,053	
Accounts receivable.....	3,770	1,749	4,332	163,822	10,093	2,010
Total current assets.....	40,352	77,836	97,774	252,620	30,689	6,915
<b>OTHER ASSETS</b>						
Inventory of stores.....	4,284	801	9,633	65,119	15,267	
Sinking fund on local debentures...						
Miscellaneous.....		1,139		5,200	302	3,163
Total other assets.....	4,284	1,940	9,633	70,319	15,569	3,163
Equity in Ontario Hydro Systems....	59,290	251,435	346,400	2,399,427	344,109	5,079
	<b>739,771</b>	<b>522,512</b>	<b>713,477</b>	<b>6,831,067</b>	<b>630,861</b>	<b>103,007</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	66,000			925,700		73,000
Accounts payable.....	3,538	154		129,746	2,878	1,669
Other.....	9,067	1,823	4,542	6,321	6,448	1,533
Total liabilities.....	78,605	1,977	4,542	1,061,767	9,326	76,202
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	59,290	251,435	346,400	2,399,427	344,109	5,079
Other.....	2,456	913	159	1,859	14	98
Total reserves.....	61,746	252,348	346,559	2,401,286	344,123	5,177
<b>CAPITAL</b>						
Debentures redeemed.....	402,500	36,983	85,045	833,911	50,000	823
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	196,920	231,204	277,331	2,534,103	227,412	20,805
Frequency standardization expense charged this year.....						
Total capital.....	599,420	268,187	362,376	3,368,014	277,412	21,628
	<b>739,771</b>	<b>522,512</b>	<b>713,477</b>	<b>6,831,067</b>	<b>630,861</b>	<b>103,007</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	201,173	125,883	181,488	1,985,551	123,404	55,807
Other.....	1,548	3,728	4,800	9,193	2,700	570
Total revenue.....	<b>202,721</b>	<b>129,611</b>	<b>186,288</b>	<b>1,994,744</b>	<b>126,104</b>	<b>56,377</b>
<b>EXPENSE</b>						
Power purchased.....	73,568	86,463	140,318	1,231,175	64,304	27,227
Local generation.....	32,377					
Operation and maintenance.....	26,060	15,681	12,981	237,992	21,449	3,395
Administration.....	27,358	12,354	19,430	138,529	21,779	4,854
Fixed charges—interest and principal	5,933			93,688		7,180
—depreciation.....	16,684	8,759	6,286	146,129	9,225	2,664
—other.....						
Total expense.....	<b>181,980</b>	<b>123,257</b>	<b>179,015</b>	<b>1,847,513</b>	<b>116,757</b>	<b>45,320</b>
<b>Net income or net expense.....</b>	<b>20,741</b>	<b>6,354</b>	<b>7,273</b>	<b>147,231</b>	<b>9,347</b>	<b>11,057</b>
Number of customers.....	1,978	1,415	1,994	14,757	1,309	487

## Statements for the Year Ended December 31, 1960

Pictou 5,062	Plattsville 484	Point Edward 2,714	Port Burwell 716	Port Colborne 15,024	Port Credit 6,564	Port Dalhousie 3,325	Port Dover 3,096	Port Elgin 1,723
\$ 437,143 113,838	\$ 45,514 2,444	\$ 264,371 52,299	\$ 75,993 26,846	\$ 1,022,376 95,408	\$ 632,216 85,598	\$ 246,810 18,525	\$ 290,879 70,483	\$ 186,710 25,938
323,305	43,070	212,072	49,147	926,968	546,618	228,285	220,396	160,772
569	2,384	2,473	4,688	13,636	1,368	4,459	10,889	8,014
2,000	4,500	49,282	.....	10,000	62,503	.....	.....	1,500
3,278	227	6,639	422	1,628	7,370	9,478	1,130	1,890
5,847	7,111	58,394	5,110	25,264	71,241	13,937	12,019	11,404
13,107	26	298	248	12,326	6,739	6,951	266	4,379
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2,307	1,043	11,283	3,188	10	44	.....
13,107	26	2,605	1,291	23,609	9,927	6,961	310	4,379
299,992	48,772	346,357	17,779	554,681	339,363	178,072	145,324	99,454
<b>642,251</b>	<b>98,979</b>	<b>619,428</b>	<b>73,327</b>	<b>1,530,522</b>	<b>967,149</b>	<b>427,255</b>	<b>378,049</b>	<b>276,009</b>
26,852	.....	.....	32,600	115,833	47,100	21,000	69,075	.....
6,119	.....	22,453	10	864	6,210	519	553	200
10,532	.....	1,708	3,292	12,265	21,370	3,034	8,189	.....
43,503	.....	24,161	35,902	128,962	74,680	24,553	77,817	200
299,992	48,772	346,357	17,779	554,681	339,363	178,072	145,324	99,454
55	.....	100	.....	.....	221	290	.....	108
300,047	48,772	346,457	17,779	554,681	339,584	178,362	145,324	99,562
36,330	5,237	17,000	7,400	227,167	90,861	48,500	39,452	37,787
.....	.....	.....	.....	.....	.....	.....	.....	.....
262,371	44,970	231,810	12,246	619,712	462,024	175,840	115,456	138,460
.....	.....	.....	.....	.....	.....	.....	.....	.....
298,701	50,207	248,810	19,646	846,879	552,885	224,340	154,908	176,247
<b>642,251</b>	<b>98,979</b>	<b>619,428</b>	<b>73,327</b>	<b>1,530,522</b>	<b>967,149</b>	<b>427,255</b>	<b>378,049</b>	<b>276,009</b>
191,954	29,665	167,614	24,622	400,275	526,122	107,964	125,805	88,532
2,728	233	4,994	758	2,681	7,456	2,067	47	806
<b>194,682</b>	<b>29,898</b>	<b>172,608</b>	<b>25,380</b>	<b>402,956</b>	<b>533,578</b>	<b>110,031</b>	<b>125,852</b>	<b>89,338</b>
128,356	26,020	149,432	9,537	232,334	434,397	62,655	81,455	46,018
.....	.....	.....	.....	.....	.....	.....	.....	.....
13,538	1,566	7,582	4,872	46,957	16,146	16,061	12,051	12,087
14,402	628	21,410	2,672	50,848	28,063	19,514	10,286	10,229
7,564	.....	323	2,942	15,902	11,595	2,569	6,309	.....
12,082	966	6,697	2,488	22,438	14,769	5,037	8,138	4,348
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>175,942</b>	<b>29,180</b>	<b>185,444</b>	<b>22,511</b>	<b>368,479</b>	<b>504,970</b>	<b>105,836</b>	<b>118,239</b>	<b>72,682</b>
<b>18,740</b>	<b>718</b>	<b>12,836</b>	<b>2,869</b>	<b>34,477</b>	<b>28,608</b>	<b>4,195</b>	<b>7,613</b>	<b>16,656</b>
1,798	195	807	462	4,614	2,774	1,079	1,558	1,064

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Port Hope	Port McNicol	Port Perry	Port Rowan	Port Stanley	Prescott
Population.....	8,072	1,016	2,247	795	1,442	5,235
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	745,868	78,289	143,878	64,480	182,786	310,426
Accumulated depreciation.....	143,144	11,977	24,914	11,792	56,178	85,094
Net fixed assets.....	602,724	66,312	118,964	52,688	126,608	225,332
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	43,434	4,243	4,621	1,046	597	.....
Investment in government securities.....	.....	26,000	26,550	.....	9,000	30,000
Accounts receivable.....	2,035	4,862	1,041	886	3,782	24,118
Total current assets.....	45,469	35,105	32,212	1,932	13,379	54,118
<b>OTHER ASSETS</b>						
Inventory of stores.....	26,151	1,352	.....	236	705	9,376
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	346	120	.....	.....	.....
Total other assets.....	26,151	1,698	120	236	705	9,376
Equity in Ontario Hydro Systems.....	502,749	60,934	94,915	31,875	165,391	266,364
	<b>1,177,093</b>	<b>164,049</b>	<b>246,211</b>	<b>86,731</b>	<b>306,083</b>	<b>555,190</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	88,000	.....	.....	.....	.....	.....
Accounts payable.....	.....	.....	.....	706	180	9,508
Other.....	42,295	402	1,771	286	973	3,448
Total liabilities.....	130,295	402	1,771	992	1,153	12,956
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	502,749	60,934	94,915	31,875	165,391	266,364
Other.....	.....	.....	100	.....	39	.....
Total reserves.....	502,749	60,934	95,015	31,875	165,430	266,364
<b>CAPITAL</b>						
Debentures redeemed.....	156,000	9,804	19,882	11,000	18,950	23,981
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	388,049	92,909	129,543	42,864	120,550	251,889
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	544,049	102,713	149,425	53,864	139,500	275,870
	<b>1,177,093</b>	<b>164,049</b>	<b>246,211</b>	<b>86,731</b>	<b>306,083</b>	<b>555,190</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	403,722	53,448	64,420	16,874	73,593	164,506
Other.....	1,732	1,557	1,827	87	526	2,157
<b>Total revenue.....</b>	<b>405,454</b>	<b>55,005</b>	<b>66,247</b>	<b>16,961</b>	<b>74,119</b>	<b>166,663</b>
<b>EXPENSE</b>						
Power purchased.....	271,462	39,292	49,772	10,363	43,073	117,992
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	39,646	4,603	6,138	1,576	8,763	9,844
Administration.....	38,631	3,460	6,919	1,666	8,740	17,110
Fixed charges—interest and principal	20,778	.....	.....	.....	.....	1,460
—depreciation.....	18,154	1,900	3,611	1,564	5,433	9,138
—other.....	.....	.....	.....	.....	.....	.....
<b>Total expense.....</b>	<b>388,671</b>	<b>49,255</b>	<b>66,440</b>	<b>15,169</b>	<b>66,009</b>	<b>155,544</b>
<b>Net income or net expense.....</b>	<b>16,783</b>	<b>5,750</b>	<b>193</b>	<b>1,792</b>	<b>8,110</b>	<b>11,119</b>
Number of customers.....	2,824	495	833	319	1,137	1,745



Statements for the Year Ended December 31, 1960

Preston	Priceville	Princeton	Queenston	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley
11,338	155	438	448	8,409	1,183	16,095	2,612	442
\$ 1,137,470 226,630	\$ 15,898 5,290	\$ 32,936 6,538	\$ 41,567 6,795	\$ 1,330,022 266,488	\$ 86,708 6,097	\$ 1,098,510 93,990	\$ 193,036 31,816	\$ 37,057 7,250
910,840	10,608	26,398	34,772	1,063,534	80,611	1,004,520	161,220	29,807
43,326	1,818	2,856	4,209	35,875	2,615	14,866	7,189	7,584
30,000	5,500	3,000	8,000	45,000	.....	.....	10,071	15,000
9,008	79	344	341	33,115	7,023	31,193	2,232	46
82,334	7,397	6,200	12,550	113,990	9,638	46,059	19,492	22,630
38,630	25	.....	.....	14,267	14	20,221	113	.....
1,459	270	.....	.....	1,247	.....	12,090	3,354	.....
40,089	295	.....	.....	15,514	14	32,311	3,467	.....
1,001,194	4,407	38,002	30,621	125,786	23,446	233,182	166,937	34,933
<b>2,034,457</b>	<b>22,707</b>	<b>70,600</b>	<b>77,943</b>	<b>1,318,824</b>	<b>113,709</b>	<b>1,316,072</b>	<b>351,116</b>	<b>87,370</b>
206,640	3,300	1,750	.....	180,221	6,200	539,557	47,842	.....
5,340	148	122	182	15,037	20,011	52,473	2,089	77
14,656	83	310	145	14,233	925	36,254	5,769	473
226,636	3,531	2,182	327	209,491	27,136	628,284	55,700	550
1,001,194	4,407	38,002	30,621	125,786	23,446	233,182	166,937	34,933
.....	.....	.....	55	165	.....	1,700	206	.....
1,001,194	4,407	38,002	30,676	125,951	23,446	234,882	167,143	34,933
269,643	8,866	4,245	9,500	591,016	7,687	80,898	33,614	12,744
.....	.....	.....	.....	.....	.....	.....	.....	.....
536,984	5,903	26,171	37,440	392,366	55,440	372,008	94,659	39,143
.....	.....	.....	.....	.....	.....	.....	.....	.....
806,627	14,769	30,416	46,940	983,382	63,127	452,906	128,273	51,887
<b>2,034,457</b>	<b>22,707</b>	<b>70,600</b>	<b>77,943</b>	<b>1,318,824</b>	<b>113,709</b>	<b>1,316,072</b>	<b>351,116</b>	<b>87,370</b>
518,444	3,744	14,297	18,374	286,366	29,878	556,719	93,853	16,193
5,531	266	125	450	5,246	2	4,961	1,681	638
<b>523,975</b>	<b>4,010</b>	<b>14,422</b>	<b>18,824</b>	<b>291,612</b>	<b>29,880</b>	<b>561,680</b>	<b>95,534</b>	<b>16,831</b>
344,322	1,889	10,509	13,530	139,548	18,581	370,500	57,281	11,627
.....	.....	.....	.....	36,046	.....	.....	.....	.....
63,088	585	506	1,645	19,994	1,806	28,944	9,166	1,168
28,182	450	1,037	1,177	29,855	1,340	33,664	11,457	1,412
27,871	431	370	.....	19,794	825	49,205	5,200	.....
29,682	514	874	1,044	31,549	1,732	22,537	4,874	985
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>493,145</b>	<b>3,869</b>	<b>13,296</b>	<b>17,396</b>	<b>276,786</b>	<b>24,284</b>	<b>504,850</b>	<b>87,978</b>	<b>15,192</b>
<b>30,830</b>	<b>141</b>	<b>1,126</b>	<b>1,428</b>	<b>14,826</b>	<b>5,596</b>	<b>56,830</b>	<b>7,556</b>	<b>1,639</b>
3,360	62	174	183	2,716	331	4,712	1,046	217

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Riverside	Rockland	Rockwood	Rodney	Rosseau	Russell
Population.....	17,549	2,919	897	1,067	228	556
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	811,262	107,831	48,437	61,689	24,170	41,899
Accumulated depreciation.....	169,454	8,468	10,241	22,139	5,947	8,145
Net fixed assets.....	641,808	99,363	38,196	39,550	18,223	33,754
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	7,020	4,024	4,933	1,211	2,094	4,717
Investment in government securities.....			1,500	5,200	1,500	12,000
Accounts receivable.....	15,942	2,694	129	397	1,070	1,883
Total current assets.....	22,962	6,718	6,562	6,808	4,664	18,600
<b>OTHER ASSETS</b>						
Inventory of stores.....	22,963			26	84	
Sinking fund on local debentures.....						
Miscellaneous.....	3,905	2,451	63			
Total other assets.....	26,868	2,451	63	26	84	
Equity in Ontario Hydro Systems.....	429,527	17,355	46,004	56,473	14,934	24,756
	<b>1,121,165</b>	<b>125,887</b>	<b>90,825</b>	<b>102,857</b>	<b>37,905</b>	<b>77,110</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	54,142	19,000	6,545			
Accounts payable.....	464	3,802	364	1,013		283
Other.....	16,795	2,492	680	500	43	330
Total liabilities.....	71,401	25,294	7,589	1,513	43	613
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	429,527	17,355	46,004	56,473	14,934	24,756
Other.....	433	546		73	27	
Total reserves.....	429,960	17,901	46,004	56,546	14,961	24,756
<b>CAPITAL</b>						
Debentures redeemed.....	141,258	6,000	5,784	8,500	11,933	8,808
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.....	478,546	76,692	31,448	36,298	10,968	42,933
Frequency standardization expense charged this year.....						
Total capital.....	619,804	82,692	37,232	44,798	22,901	51,741
	<b>1,121,165</b>	<b>125,887</b>	<b>90,825</b>	<b>102,857</b>	<b>37,905</b>	<b>77,110</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	388,042	51,204	23,506	29,608	7,353	12,675
Other.....	3,123	171	176	375	175	648
Total revenue.....	<b>391,165</b>	<b>51,375</b>	<b>23,682</b>	<b>29,983</b>	<b>7,528</b>	<b>13,323</b>
<b>EXPENSE</b>						
Power purchased.....	248,231	32,065	17,757	18,822	3,903	9,231
Local generation.....						
Operation and maintenance.....	38,805	7,107	3,080	4,938	789	1,381
Administration.....	46,490	3,290	2,785	5,551	673	1,554
Fixed charges—interest and principal.....	13,839	1,877	589			
—depreciation.....	20,939	2,448	1,337	2,010	711	1,087
—other.....						
Total expense.....	<b>368,304</b>	<b>46,787</b>	<b>25,548</b>	<b>31,321</b>	<b>6,076</b>	<b>13,253</b>
Net income or net expense.....	<b>22,861</b>	<b>4,588</b>	<b>1,866</b>	<b>1,338</b>	<b>1,452</b>	<b>70</b>
Number of customers.....	5,346	736	291	445	127	209

Statements for the Year Ended December 31, 1960

St. Catharines 41,163	St. Clair Beach 1,416	St. George 754	St. Jacobs 715	St. Mary's 4,509	St. Thomas 22,348	Sandwich East Twp. 21,864	Sandwich West Twp. 27,786	Sarnia 49,089
\$ 4,200,871 609,169	\$ 101,726 21,956	\$ 50,426 3,447	\$ 49,459 10,351	\$ 482,383 118,496	\$ 1,725,477 472,930	\$ 1,397,639 277,149	\$ 2,018,259 346,223	\$ 4,766,740 969,984
3,591,702	79,770	46,979	39,108	363,887	1,252,547	1,120,490	1,672,036	3,796,756
413,078	8,571	.....	2,246	24,428	300	129,177	19,662	600
100,000	.....	6,000	6,703	42,500	35,000	13,170	148,919	.....
171,053	1,115	1,538	1,244	2,283	59,571	44,449	87,344	126,805
684,131	9,686	7,538	10,193	69,211	94,871	186,796	255,925	127,405
91,789	28	65	10	22,804	43,944	35,373	29,622	173,888
2,680	259	.....	.....	23	2,258	43,729	61,333	49,255
94,469	287	65	10	22,827	46,202	79,102	90,955	223,143
3,691,369	35,800	53,873	68,770	519,038	1,825,214	193,005	348,802	3,498,588
<b>8,061,671</b>	<b>125,543</b>	<b>108,455</b>	<b>118,081</b>	<b>974,963</b>	<b>3,218,834</b>	<b>1,579,393</b>	<b>2,367,718</b>	<b>7,645,892</b>
.....	5,400	.....	.....	42,934	.....	918,000	1,114,000	678,500
181,085	682	202	577	831	20,184	41,535	2,326	154,817
23,399	1,210	696	100	3,869	48,470	35,991	98,587	63,044
204,484	7,292	898	677	47,634	68,654	995,526	1,214,913	896,361
3,691,369	35,800	53,873	68,770	519,038	1,825,214	193,005	348,802	3,498,588
9,234	.....	.....	.....	12	234	908	100	2,433
3,700,603	35,800	53,873	68,770	519,050	1,825,448	193,913	348,902	3,501,021
302,023	12,553	6,000	6,000	147,274	138,944	125,829	181,500	607,891
3,854,561	69,898	47,684	42,634	261,005	1,185,788	264,125	622,403	2,640,619
4,156,584	82,451	53,684	48,634	408,279	1,324,732	389,954	803,903	3,248,510
<b>8,061,671</b>	<b>125,543</b>	<b>108,455</b>	<b>118,081</b>	<b>974,963</b>	<b>3,218,834</b>	<b>1,579,393</b>	<b>2,367,718</b>	<b>7,645,892</b>
2,383,924	38,218	23,342	26,842	478,658	857,329	604,075	853,389	6,054,562
20,911	158	389	231	4,146	7,322	8,004	12,072	50,200
<b>2,404,835</b>	<b>38,376</b>	<b>23,731</b>	<b>27,073</b>	<b>482,804</b>	<b>864,651</b>	<b>612,079</b>	<b>865,461</b>	<b>6,104,762</b>
1,592,576	22,991	19,801	21,121	401,675	520,552	232,994	425,863	5,163,831
180,412	1,987	1,102	1,245	22,168	134,055	107,638	86,340	364,122
168,772	3,504	1,835	1,580	20,233	80,897	85,165	87,139	220,430
.....	1,551	.....	.....	5,519	.....	86,033	108,255	78,748
101,097	2,632	1,075	1,331	13,257	49,346	35,058	50,061	121,438
2,042,857	32,665	23,813	25,277	462,852	784,850	546,888	757,658	5,948,569
361,978	5,711	82	1,796	19,952	79,801	65,191	107,803	156,193
14,105	429	303	227	1,646	7,033	6,191	7,862	15,419

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Scarborough Twp.	Seaforth	Shelburne	Simcoe	Smith's Falls	Smithville
Population.....	197,969	2,260	1,247	8,453	9,082	835
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Plant and facilities at cost.....	18,539,923	229,127	115,901	706,005	763,483	64,095
Accumulated depreciation.....	1,801,352	26,046	34,106	147,183	199,743	12,431
Net fixed assets.....	16,738,571	203,081	81,795	558,822	563,740	51,664
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	876,482	13,682	11,737	25,581	1,806	8,907
Investment in government securities	327,500	9,000	5,954	24,525	20,000	3,000
Accounts receivable.....	434,885	4,457	1,011	2,073	3,606	127
Total current assets.....	1,638,867	27,139	18,702	52,179	25,412	12,034
<b>OTHER ASSETS</b>						
Inventory of stores.....	144,855	495	270	1,089	16,933	226
Sinking fund on local debentures...	569,159					
Miscellaneous.....	228,825	39	1,200	132	413	
Total other assets.....	942,839	534	1,470	1,221	17,346	226
Equity in Ontario Hydro Systems....	3,446,713	214,858	89,031	552,539	546,534	33,341
	<b>22,766,990</b>	<b>445,612</b>	<b>190,998</b>	<b>1,164,761</b>	<b>1,153,032</b>	<b>97,265</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	9,392,554	25,700			7,500	
Accounts payable.....	731,824	1,600	349		3,797	24
Other.....	1,148,140	2,775	166	10,938	852	360
Total liabilities.....	11,272,518	30,075	515	10,938	12,149	384
<b>RESERVES</b>						
Equity in Ontario Hydro Systems...	3,446,713	214,858	89,031	552,539	546,534	33,341
Other.....	11,088		100		81	
Total reserves.....	3,457,801	214,858	89,131	552,539	546,615	33,341
<b>CAPITAL</b>						
Debentures redeemed.....	1,807,573	48,740	16,991	75,435	140,288	15,000
Local sinking fund.....	569,159					
Accumulated net income invested in plant or held as working funds.	5,659,939	151,939	84,361	525,849	453,980	48,540
Frequency standardization expense charged this year.....						
Total capital.....	8,036,671	200,679	101,352	601,284	594,268	63,540
	<b>22,766,990</b>	<b>445,612</b>	<b>190,998</b>	<b>1,164,761</b>	<b>1,153,032</b>	<b>97,265</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	7,310,532	86,625	50,297	392,058	337,206	39,607
Other.....	158,108	722	82	3,971	2,849	352
Total revenue.....	<b>7,468,640</b>	<b>87,347</b>	<b>50,379</b>	<b>396,029</b>	<b>340,055</b>	<b>39,959</b>
<b>EXPENSE</b>						
Power purchased.....	4,827,311	56,549	31,661	280,189	226,810	24,192
Local generation.....						
Operation and maintenance.....	445,657	10,841	3,597	43,535	26,997	3,215
Administration.....	557,319	10,275	3,405	22,170	37,181	5,059
Fixed charges—interest and principal	764,761	2,900			3,390	
—depreciation.....	395,965	5,165	3,482	18,635	21,866	1,674
—other.....						
Total expense.....	<b>6,991,013</b>	<b>85,730</b>	<b>42,145</b>	<b>364,529</b>	<b>316,244</b>	<b>34,140</b>
Net income or net expense.....	<b>477,627</b>	<b>1,617</b>	<b>8,234</b>	<b>31,500</b>	<b>23,811</b>	<b>5,819</b>
Number of customers.....	59,815	865	570	3,139	3,330	375



Statements for the Year Ended December 31, 1960

Southampton 1,716	Springfield 536	Stamford Twp. 29,655	Stayner 1,624	Stirling 1,328	Stoney Creek 6,130	Stouffville 3,052	Stratford 20,432	Strathroy 4,844
\$ 173,576 17,955	\$ 39,791 13,077	\$ 2,411,344 334,942	\$ 121,969 20,009	\$ 122,718 35,781	\$ 350,868 38,284	\$ 203,522 25,645	\$ 2,275,647 501,768	\$ 418,837 122,478
155,621	26,714	2,076,402	101,960	86,937	312,584	177,877	1,773,879	296,359
11,272	5,297	231,283	6,016	14,893	12,136	28,968	25,460	754
5,000	1,500	8,000	1,000	.....	29,760	.....	180,000	.....
2,746	519	28,543	1,654	5,195	1,394	7,538	21,620	2,464
19,018	7,316	267,826	8,670	20,088	43,290	36,506	227,080	3,218
3,149	.....	47,837	221	1,810	.....	379	70,078	516
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	28,259	965	.....	900	2,187	22,277	643
3,149	.....	76,096	1,186	1,810	900	2,566	92,355	1,159
94,746	31,878	722,698	80,946	57,793	90,698	110,222	2,081,097	364,032
<b>272,534</b>	<b>65,908</b>	<b>3,143,022</b>	<b>192,762</b>	<b>166,628</b>	<b>447,472</b>	<b>327,171</b>	<b>4,174,411</b>	<b>664,768</b>
6,658	.....	1,006,377	.....	5,951	46,946	65,362	328,000	6,600
72	585	45,037	727	.....	1,811	7,518	36,371	2,913
1,435	145	56,267	511	828	6,142	9,411	92,207	4,962
8,165	730	1,107,681	1,238	6,779	54,899	82,291	456,578	14,475
94,746	31,878	722,698	80,946	57,793	90,698	110,222	2,081,097	364,032
.....	350	1,200	100	.....	.....	74	1,158	66
94,746	32,228	723,898	81,046	57,793	90,698	110,296	2,082,255	364,098
35,865	9,500	563,901	9,557	17,049	31,514	19,039	455,800	57,289
.....	.....	.....	.....	.....	.....	.....	.....	.....
133,758	23,450	747,542	100,921	85,007	270,361	115,545	1,179,778	228,906
.....	.....	.....	.....	.....	.....	.....	.....	.....
169,623	32,950	1,311,443	110,478	102,056	301,875	134,584	1,635,578	286,195
<b>272,534</b>	<b>65,908</b>	<b>3,143,022</b>	<b>192,762</b>	<b>166,628</b>	<b>447,472</b>	<b>327,171</b>	<b>4,174,411</b>	<b>664,768</b>
79,158	11,913	1,050,853	62,656	44,786	188,723	119,062	905,912	195,448
1,840	94	9,430	150	788	1,444	1,444	8,485	359
<b>80,998</b>	<b>12,007</b>	<b>1,060,283</b>	<b>62,806</b>	<b>45,574</b>	<b>190,167</b>	<b>120,506</b>	<b>914,397</b>	<b>195,807</b>
43,983	8,663	608,617	36,362	29,072	139,198	78,950	557,158	124,425
.....	.....	.....	.....	.....	.....	.....	.....	.....
13,100	1,109	109,608	4,614	6,111	11,124	6,569	103,467	23,107
5,802	1,356	84,619	3,509	6,744	19,686	10,557	91,476	21,055
1,517	.....	101,993	.....	999	6,202	5,194	24,911	1,272
3,820	1,248	56,956	2,969	2,193	8,151	4,380	61,021	12,336
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>68,222</b>	<b>12,376</b>	<b>961,793</b>	<b>47,454</b>	<b>45,119</b>	<b>184,361</b>	<b>105,650</b>	<b>838,033</b>	<b>182,195</b>
<b>12,776</b>	<b>369</b>	<b>98,490</b>	<b>15,352</b>	<b>455</b>	<b>5,806</b>	<b>14,856</b>	<b>76,364</b>	<b>13,612</b>
1,158	182	8,931	648	536	1,952	1,066	6,978	1,807

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Streetsville	Sunderland	Sundridge	Sutton	Swansea	Tara
Population.....	4,979	611	765	1,405	9,529	506
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	357,261	44,236	68,821	140,607	652,350	41,747
Accumulated depreciation.....	45,962	9,719	8,221	36,555	134,464	10,755
Net fixed assets.....	311,299	34,517	60,600	104,052	517,886	30,992
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	10,510	8,301	9,569	2,910	61,939	4,860
Investment in government securities.....		2,000	9,934	7,000	98,217	8,000
Accounts receivable.....	4,608	282	476	5,123	4,080	174
Total current assets.....	15,118	10,583	19,979	15,033	164,236	13,034
<b>OTHER ASSETS</b>						
Inventory of stores.....	966		690		10,564	50
Sinking fund on local debentures.....						
Miscellaneous.....	142	99		4,406	1,906	172
Total other assets.....	1,108	99	690	4,406	12,470	222
Equity in Ontario Hydro Systems.....	90,063	41,881	9,066	92,165	480,911	37,278
	<b>417,588</b>	<b>87,080</b>	<b>90,335</b>	<b>215,656</b>	<b>1,175,503</b>	<b>81,526</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	110,955		24,892		71,382	
Accounts payable.....	1,517	115	1,552	6,161	8,437	
Other.....	18,401	100	41	1,186	17,202	15
Total liabilities.....	130,873	215	26,485	7,347	97,021	15
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	90,063	41,881	9,066	92,165	480,911	37,278
Other.....	1,293			265	200	
Total reserves.....	91,356	41,881	9,066	92,430	481,111	37,278
<b>CAPITAL</b>						
Debentures redeemed.....	42,064	4,628	10,108	26,000	177,765	14,264
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	153,295	40,356	44,676	89,879	419,606	29,969
Frequency standardization expense charged this year.....						
Total capital.....	195,359	44,984	54,784	115,879	597,371	44,233
	<b>417,588</b>	<b>87,080</b>	<b>90,335</b>	<b>215,656</b>	<b>1,175,503</b>	<b>81,526</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	173,575	19,490	24,683	62,419	317,693	20,543
Other.....	1,666	202	744	382	17,819	302
Total revenue.....	<b>175,241</b>	<b>19,692</b>	<b>25,427</b>	<b>62,801</b>	<b>335,512</b>	<b>20,845</b>
<b>EXPENSE</b>						
Power purchased.....	111,978	15,519	11,625	40,496	233,258	15,156
Local generation.....	1,167					
Operation and maintenance.....	7,132	1,079	2,044	5,575	51,206	1,273
Administration.....	11,917	1,640	1,866	7,875	35,028	1,069
Fixed charges—interest and principal	11,411		2,809		13,728	
—depreciation.....	8,521	1,211	1,416	4,038	16,355	1,219
—other.....						
Total expense.....	<b>152,126</b>	<b>19,449</b>	<b>19,760</b>	<b>57,984</b>	<b>349,575</b>	<b>18,717</b>
Net income or net expense.....	<b>23,115</b>	<b>243</b>	<b>5,667</b>	<b>4,817</b>	<b>14,063</b>	<b>2,128</b>
Number of customers.....	1,445	262	296	890	3,528	235

## Statements for the Year Ended December 31, 1960

Tavistock	Tecumseh	Teeswater	Thamesford	Thamesville	Thedford	Thornbury	Thorndale	Thornton
1,222	4,416	895	984	1,040	738	1,161	416	289
\$ 106,618 33,079	\$ 225,719 65,075	\$ 83,458 12,940	\$ 76,145 13,559	\$ 101,965 23,718	\$ 55,457 8,837	\$ 146,124 15,519	\$ 30,666 10,379	\$ 20,595 8,590
73,539	160,644	70,518	62,586	78,247	46,620	130,605	20,287	12,005
12,913	9,923	.....	952	8,667	1,666	338	5,959	1,149
10,000	.....	15,000	.....	6,840	11,927	4,000	3,000	.....
247	6,045	74	1,098	847	1,383	4,208	911	550
23,160	15,968	15,074	2,050	16,354	14,976	8,546	9,870	1,699
303	11,399	.....	.....	14	14	1,797	.....	.....
58	.....	628	69	87	570	286	.....	233
361	11,399	628	69	101	584	2,083	.....	233
165,033	127,989	56,737	69,652	75,749	43,852	23,102	32,610	13,359
<b>262,093</b>	<b>316,000</b>	<b>142,957</b>	<b>134,357</b>	<b>170,451</b>	<b>106,032</b>	<b>164,336</b>	<b>62,767</b>	<b>27,296</b>
21,273	.....	.....	2,100	.....	.....	22,736	.....	.....
598	116	1,145	177	.....	2,418	711	101	88
1,187	2,000	79	541	1,095	529	275	6	78
23,058	2,116	1,224	2,818	1,095	2,947	23,722	107	166
165,033	127,989	56,737	69,652	75,749	43,852	23,102	32,610	13,359
.....	.....	.....	.....	131	5	.....	28	.....
165,033	127,989	56,737	69,652	75,880	43,857	23,102	32,638	13,359
14,012	26,000	21,296	6,258	11,188	16,500	63,264	3,086	7,200
.....	.....	.....	.....	.....	.....	.....	.....	.....
59,990	159,895	63,700	55,629	82,288	42,728	54,248	26,936	6,571
.....	.....	.....	.....	.....	.....	.....	.....	.....
74,002	185,895	84,996	61,887	93,476	59,228	117,512	30,022	13,771
<b>262,093</b>	<b>316,000</b>	<b>142,957</b>	<b>134,357</b>	<b>170,451</b>	<b>106,032</b>	<b>164,336</b>	<b>62,767</b>	<b>27,296</b>
50,839	93,733	35,114	41,217	43,313	21,716	54,907	13,655	6,855
2,180	700	695	439	415	572	317	193	1
<b>53,019</b>	<b>94,433</b>	<b>35,809</b>	<b>41,656</b>	<b>43,728</b>	<b>22,288</b>	<b>55,224</b>	<b>13,848</b>	<b>6,856</b>
33,972	52,829	26,095	29,553	29,630	17,578	31,608	9,792	4,263
.....	.....	.....	.....	.....	.....	.....	.....	.....
5,803	14,379	2,267	2,257	5,135	1,567	6,146	1,317	668
3,787	13,414	2,498	2,688	4,515	2,133	4,055	1,485	544
2,260	.....	.....	177	.....	.....	2,890	.....	.....
3,204	6,582	2,138	1,890	2,775	1,352	3,198	980	442
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>49,026</b>	<b>87,204</b>	<b>32,998</b>	<b>36,565</b>	<b>42,055</b>	<b>22,630</b>	<b>47,897</b>	<b>13,574</b>	<b>5,917</b>
<b>3,993</b>	<b>7,229</b>	<b>2,811</b>	<b>5,091</b>	<b>1,673</b>	<b>342</b>	<b>7,327</b>	<b>274</b>	<b>939</b>
510	1,337	360	352	442	315	534	137	103

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Thorold	Tilbury	Tillsonburg	Toronto	Toronto Twp.	Tottenham
Population.....	8,602	3,070	6,542	657,233	59,983	781
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	593,521	231,760	732,002	95,719,614	6,175,881	37,639
Accumulated depreciation.....	93,530	66,740	84,277	24,776,628	618,023	9,400
Net fixed assets.....	499,991	165,020	647,725	70,942,986	5,557,858	28,239
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	30,001	8,163	7,619	110,587	27,665	9,006
Investment in government securities.....		10,000		3,380,007	8,000	10,584
Accounts receivable.....	2,692	3,028	2,886	4,465,928	346,363	743
Total current assets.....	32,693	21,191	10,505	7,956,522	382,028	20,333
<b>OTHER ASSETS</b>						
Inventory of stores.....	16,222	456	21,722	2,587,383	97,034	
Sinking fund on local debentures.....				611,858		
Miscellaneous.....	3,315	791	12,062	540,608	73,930	
Total other assets.....	19,537	1,247	33,784	3,739,849	170,964	
Equity in Ontario Hydro Systems.....	647,078	220,434	383,281	78,668,476	1,551,088	44,061
	<b>1,199,299</b>	<b>407,892</b>	<b>1,075,295</b>	<b>161,307,833</b>	<b>7,661,938</b>	<b>92,633</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	92,581	40,000	92,600	13,724,050	1,064,564	2,369
Accounts payable.....	3,307	202	6,926	2,381,731	83,783	
Other.....	6,175	4,860	22,179	915,427	132,251	733
Total liabilities.....	102,063	45,062	121,705	17,021,208	1,280,598	3,102
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	647,078	220,434	383,281	78,668,476	1,551,088	44,061
Other.....	200	381	79	751,960	17,324	
Total reserves.....	647,278	220,815	383,360	79,420,436	1,568,412	44,061
<b>CAPITAL</b>						
Debentures redeemed.....	37,418	24,000	123,400	31,203,935	536,804	19,065
Local sinking fund.....				611,858		
Accumulated net income invested in plant or held as working funds.....	412,540	118,015	446,830	33,050,396	4,276,124	26,405
Frequency standardization expense charged this year.....						
Total capital.....	449,958	142,015	570,230	64,866,189	4,812,928	45,470
	<b>1,199,299</b>	<b>407,892</b>	<b>1,075,295</b>	<b>161,307,833</b>	<b>7,661,938</b>	<b>92,633</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	545,624	89,370	273,940	37,251,067	3,024,299	22,109
Other.....	6,728	1,254	1,010	423,988	25,960	404
<b>Total revenue.....</b>	<b>552,352</b>	<b>90,624</b>	<b>274,950</b>	<b>37,675,055</b>	<b>3,050,259</b>	<b>22,423</b>
<b>EXPENSE</b>						
Power purchased.....	448,623	53,890	167,406	22,661,713	2,025,171	15,232
Local generation.....						
Operation and maintenance.....	41,290	8,179	35,176	5,240,304	212,803	1,345
Administration.....	31,400	14,561	23,245	4,162,918	232,470	1,135
Fixed charges—interest and principal	9,753	4,703	15,752	1,253,285	116,352	838
—depreciation.....	14,569	6,796	16,471	3,055,273	135,008	1,075
—other.....						
<b>Total expense.....</b>	<b>545,635</b>	<b>88,129</b>	<b>258,050</b>	<b>36,373,493</b>	<b>2,721,804</b>	<b>19,625</b>
<b>Net income or net expense.....</b>	<b>6,717</b>	<b>2,495</b>	<b>16,900</b>	<b>1,301,562</b>	<b>328,455</b>	<b>2,798</b>
Number of customers.....	2,566	1,053	2,450	208,956	15,130	271



## Statements for the Year Ended December 31, 1960

Trenton	Tweed	Uxbridge	Vankleek Hill	Victoria Harbour	Walkerton	Wallaceburg	Wardsville
12,314	1,717	2,369	1,690	999	3,835	8,029	313
\$ 1,040,561 279,256	\$ 149,545 20,265	\$ 147,955 25,957	\$ 129,958 24,223	\$ 61,322 10,398	\$ 262,913 25,768	\$ 902,103 238,234	\$ 26,507 6,806
761,305	129,280	121,998	105,735	50,924	237,145	663,869	19,701
15,064	.....	16,278	8,058	2,169	17,004	100,378	1,171
55,200	24,500	22,375	.....	.....	23,000	75,396	1,500
17,971	293	927	9	1,346	4,022	30,004	219
88,235	24,793	39,580	8,067	3,515	44,026	205,778	2,890
22,402	524	2,318	.....	1,724	13,466	68,688	.....
100	600	.....	1,686	.....	590	.....	.....
22,502	1,124	2,318	1,686	1,724	14,056	68,688	.....
749,667	71,958	108,811	11,921	28,927	168,774	948,034	17,716
<b>1,621,709</b>	<b>227,155</b>	<b>272,707</b>	<b>127,409</b>	<b>85,090</b>	<b>464,001</b>	<b>1,886,369</b>	<b>40,307</b>
.....	.....	.....	34,300	9,600	.....	.....	.....
4,891	5,866	4,131	737	.....	858	361	185
14,082	552	2,032	2,049	145	2,690	7,683	170
18,973	6,418	6,163	37,086	9,745	3,548	8,044	355
749,667	71,958	108,811	11,921	28,927	168,774	948,034	17,716
300	310	206	.....	.....	638	1,301	7
749,967	72,268	109,017	11,921	28,927	169,412	949,335	17,723
164,587	19,000	15,364	11,700	9,278	56,749	71,537	7,562
.....	.....	.....	.....	.....	.....	.....	.....
688,182	129,469	142,163	66,702	37,140	234,292	857,453	14,667
.....	.....	.....	.....	.....	.....	.....	.....
852,769	148,469	157,527	78,402	46,418	291,041	928,990	22,229
<b>1,621,709</b>	<b>227,155</b>	<b>272,707</b>	<b>127,409</b>	<b>85,090</b>	<b>464,001</b>	<b>1,886,369</b>	<b>40,307</b>
667,808	44,797	87,045	41,066	25,339	131,620	404,894	11,545
5,882	1,776	1,068	743	147	2,178	6,217	219
<b>673,690</b>	<b>46,573</b>	<b>88,113</b>	<b>41,809</b>	<b>25,486</b>	<b>133,798</b>	<b>411,111</b>	<b>11,764</b>
529,129	36,919	63,976	21,321	13,444	91,350	292,662	7,324
32,993	2,622	7,751	3,282	3,639	11,525	42,684	595
42,340	5,234	7,140	4,821	2,041	15,999	42,111	680
.....	.....	.....	3,536	1,164	.....	.....	.....
29,019	3,519	3,672	3,344	1,549	5,890	26,179	756
.....	.....	.....	.....	.....	.....	.....	.....
<b>633,481</b>	<b>48,294</b>	<b>82,539</b>	<b>36,304</b>	<b>21,837</b>	<b>124,764</b>	<b>403,636</b>	<b>9,355</b>
<b>40,209</b>	<b>1,721</b>	<b>5,574</b>	<b>5,505</b>	<b>3,649</b>	<b>9,034</b>	<b>7,475</b>	<b>2,409</b>
4,078	624	888	544	494	1,295	2,744	148

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Warkworth	Wasaga Beach	Waterdown	Waterford	Waterloo	Watford
Population.....	524	414	1,834	2,155	20,562	1,235
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>						
Plant and facilities at cost.....	\$ 50,103	\$ 164,351	\$ 120,038	\$ 134,444	\$ 1,904,416	\$ 90,827
Accumulated depreciation.....	7,936	41,167	29,134	27,960	359,542	29,967
Net fixed assets.....	42,167	123,184	90,904	106,484	1,544,874	60,860
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	1,457	7,056	11,801	2,221	10,199	10,926
Investment in government securities	3,000	15,000	.....	9,917	100	13,148
Accounts receivable.....	106	6,509	1,038	473	15,562	3,312
Total current assets.....	4,563	28,565	12,839	12,611	25,861	27,386
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	.....	52	77	51,892	617
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	2,917	.....	.....	406	.....
Total other assets.....	.....	2,917	52	77	52,298	617
Equity in Ontario Hydro Systems.....	21,244	17,206	89,880	123,581	1,229,740	111,609
	<b>67,974</b>	<b>171,872</b>	<b>193,675</b>	<b>242,753</b>	<b>2,852,773</b>	<b>200,472</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	7,504	68,000	9,000	32,600	513,500	.....
Accounts payable.....	484	130	.....	.....	20,326	98
Other.....	202	4,125	576	2,972	32,016	811
Total liabilities.....	8,190	72,255	9,576	35,572	565,842	909
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	21,244	17,206	89,880	123,581	1,229,740	111,609
Other.....	.....	147	.....	.....	41	.....
Total reserves.....	21,244	17,353	89,880	123,581	1,229,781	111,609
<b>CAPITAL</b>						
Debentures redeemed.....	11,496	42,000	13,632	9,523	336,127	9,056
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	27,044	40,264	80,587	74,076	721,023	78,898
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	38,540	82,264	94,219	83,600	1,057,150	87,954
	<b>67,974</b>	<b>171,872</b>	<b>193,675</b>	<b>242,753</b>	<b>2,852,773</b>	<b>200,472</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	12,677	57,113	61,789	64,606	882,416	66,662
Other.....	108	1,825	101	118	3,584	1,381
Total revenue.....	<b>12,785</b>	<b>58,938</b>	<b>61,890</b>	<b>64,724</b>	<b>886,000</b>	<b>68,043</b>
<b>EXPENSE</b>						
Power purchased.....	8,509	25,936	37,178	38,719	575,263	53,344
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	955	6,617	5,989	7,520	80,125	4,672
Administration.....	1,509	8,460	5,806	4,365	50,691	7,958
Fixed charges—interest and principal	642	7,960	1,491	2,917	60,066	.....
—depreciation.....	1,161	4,382	3,367	3,523	47,298	2,826
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>12,776</b>	<b>53,355</b>	<b>53,831</b>	<b>57,044</b>	<b>813,443</b>	<b>68,800</b>
Net income or net expense.....	<b>9</b>	<b>5,583</b>	<b>8,059</b>	<b>7,680</b>	<b>72,557</b>	<b>757</b>
Number of customers.....	236	1,038	589	823	6,445	524

## Statements for the Year Ended December 31, 1960

Waubauskene	Welland	Wellesley	Wellington	West Lorne	Weston	Westport	Wheatley
1,400	17,556	670	1,002	1,077	9,419	693	1,337
\$ 50,241 8,590	\$ 1,776,846 409,231	\$ 50,055 6,694	\$ 72,449 26,592	\$ 108,684 33,190	\$ 1,151,485 214,805	\$ 40,225 4,051	\$ 149,882 25,076
41,651	1,367,615	43,361	45,857	75,494	936,680	36,174	124,806
701	58,244	3,029	229	17,834	65,422	1,447	8,854
.....	122,146	1,000	9,000	4,925	.....	8,000	.....
1,042	8,438	13	361	1,768	14,913	.....	374
1,743	188,828	4,042	9,590	24,527	80,335	9,447	9,228
312	22,663	15	2,050	1,596	31,149	.....	181
.....	.....	.....	.....	.....	26,266	.....	.....
.....	47,767	.....	.....	591	4,141	15	.....
312	70,430	15	2,050	2,187	61,556	15	181
25,126	1,486,317	56,191	55,452	114,754	990,576	29,892	74,055
<b>68,832</b>	<b>3,113,190</b>	<b>103,609</b>	<b>112,949</b>	<b>216,962</b>	<b>2,069,147</b>	<b>75,528</b>	<b>208,270</b>
.....	482,000	3,800	.....	.....	177,513	.....	22,004
1,023	11,786	1,000	88	186	16,414	.....	215
35	27,009	196	864	155	25,029	299	1,351
1,058	520,795	4,996	952	341	218,956	299	23,570
25,126	1,486,317	56,191	55,452	114,754	990,576	29,892	74,055
.....	23,430	.....	.....	7	784	.....	1
25,126	1,509,747	56,191	55,452	114,761	991,360	29,892	74,056
3,242	347,250	8,628	13,816	8,000	127,287	15,000	29,996
.....	.....	.....	.....	.....	26,266	.....	.....
39,406	735,398	33,794	42,729	93,860	705,278	30,337	80,648
.....	.....	.....	.....	.....	.....	.....	.....
42,648	1,082,648	42,422	56,545	101,860	858,831	45,337	110,644
<b>68,832</b>	<b>3,113,190</b>	<b>103,609</b>	<b>112,949</b>	<b>216,962</b>	<b>2,069,147</b>	<b>75,528</b>	<b>208,270</b>
21,559	759,534	24,792	27,766	57,322	503,153	19,171	58,965
64	14,150	29	692	3,751	20,610	514	137
<b>21,623</b>	<b>773,684</b>	<b>24,821</b>	<b>28,458</b>	<b>61,073</b>	<b>523,763</b>	<b>19,685</b>	<b>59,102</b>
11,615	510,303	16,475	22,995	38,088	325,534	13,140	34,502
.....	.....	.....	.....	.....	.....	.....	.....
3,474	80,156	1,717	3,924	3,435	40,736	1,486	5,101
2,306	69,404	1,440	2,907	7,151	58,144	3,125	3,867
.....	43,455	479	.....	.....	19,792	.....	3,624
1,236	48,935	1,215	1,449	3,236	28,959	910	3,690
.....	.....	.....	.....	.....	.....	.....	.....
<b>18,631</b>	<b>752,253</b>	<b>21,326</b>	<b>31,275</b>	<b>51,910</b>	<b>473,165</b>	<b>18,661</b>	<b>50,784</b>
<b>2,992</b>	<b>21,431</b>	<b>3,495</b>	<b>2,817</b>	<b>9,163</b>	<b>50,598</b>	<b>1,024</b>	<b>8,318</b>
443	5,496	278	497	428	3,398	293	490

## Municipal Electrical Utilities Financial

## Southern Ontario System—Concluded

Municipality.....	Whitby	Warton	Williams- burg	Winchester	Windermere	Windsor
Population.....	12,501	2,038	336	1,379	119	116,160
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	1,157,366	123,325	21,758	105,946	30,433	12,192,367
Accumulated depreciation.....	180,457	18,703	6,858	23,814	7,369	3,907,531
Net fixed assets.....	976,909	104,622	14,900	82,132	23,064	8,284,836
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	35,252	1,416	1,179	20,529	7,991	51,670
Investment in government securities	10,000	15,000	15,000	.....	5,000	1,970,439
Accounts receivable.....	20,659	680	149	1,086	192	412,893
Total current assets.....	65,911	17,096	16,328	21,615	13,183	2,435,002
<b>OTHER ASSETS</b>						
Inventory of stores.....	29,133	41	.....	.....	.....	233,739
Sinking fund on local debentures...	.....	.....	.....	.....	.....	.....
Miscellaneous.....	290	.....	.....	.....	.....	1,390
Total other assets.....	29,423	41	.....	.....	.....	235,129
Equity in Ontario Hydro Systems...	400,350	95,347	25,943	98,370	13,298	12,500,184
	<b>1,472,593</b>	<b>217,106</b>	<b>57,171</b>	<b>202,117</b>	<b>49,545</b>	<b>23,455,151</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	156,000	.....	.....	.....	.....	.....
Accounts payable.....	43	86	.....	99	246	262,858
Other.....	149,996	172	413	10	.....	178,684
Total liabilities.....	306,039	258	413	109	246	441,542
<b>RESERVES</b>						
Equity in Ontario Hydro Systems...	400,350	95,347	25,943	98,370	13,298	12,500,184
Other.....	1,000	.....	311	.....	90	247,426
Total reserves.....	401,350	95,347	26,254	98,370	13,388	12,747,610
<b>CAPITAL</b>						
Debentures redeemed.....	120,356	37,400	2,750	29,206	11,238	2,583,832
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	644,848	84,101	27,754	74,432	24,673	7,682,167
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	765,204	121,501	30,504	103,638	35,911	10,265,999
	<b>1,472,593</b>	<b>217,106</b>	<b>57,171</b>	<b>202,117</b>	<b>49,545</b>	<b>23,455,151</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	532,318	67,021	9,478	64,917	8,201	4,444,164
Other.....	6,182	1,056	573	87	233	112,158
Total revenue.....	<b>538,500</b>	<b>68,077</b>	<b>10,051</b>	<b>65,004</b>	<b>8,434</b>	<b>4,556,322</b>
<b>EXPENSE</b>						
Power purchased.....	336,097	51,940	8,546	43,222	4,951	2,905,188
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	39,852	10,001	312	2,603	1,102	739,300
Administration.....	62,339	6,059	990	4,143	770	384,498
Fixed charges—interest and principal	27,335	.....	.....	.....	.....	9,188
—depreciation.....	26,968	3,002	674	2,895	863	372,757
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>492,591</b>	<b>71,002</b>	<b>10,522</b>	<b>52,863</b>	<b>7,686</b>	<b>4,410,931</b>
Net income or net expense.....	<b>45,909</b>	<b>2,925</b>	<b>471</b>	<b>12,141</b>	<b>748</b>	<b>145,391</b>
Number of customers.....	3,732	791	147	558	120	37,142



## Statements for the Year Ended December 31, 1960

Wingham	Woodbridge	Woodstock	Woodville	Wyoming	York Twp.	Zurich	TOTAL SOUTHERN ONTARIO SYSTEM
2,770	2,293	19,923	422	876	123,457	737	
\$ 284,390 89,195	\$ 163,890 36,248	\$ 1,875,695 479,073	\$ 34,432 5,041	\$ 58,662 17,000	\$ 7,252,130 2,045,445	\$ 50,419 6,695	\$ 392,734,743 78,008,709
195,195	127,642	1,396,622	29,391	41,662	5,206,685	43,724	314,726,034
17,225	38,112	141,422	4,582	9,224	299,345	1,055	11,283,117
60,000	24,575	135,000	.....	9,155	554,000	.....	13,370,776
1,503	519	18,484	396	764	245,028	69	12,241,073
78,728	63,206	294,906	4,978	19,143	1,098,373	1,124	36,894,966
11,068	98	899	.....	98	102,353	62	8,688,312
.....	.....	.....	.....	.....	.....	.....	2,316,958
1,123	.....	1,611	267	.....	3,970	9	2,414,256
12,191	98	2,510	267	98	106,323	71	13,419,526
193,159	180,538	1,743,836	34,478	37,682	4,202,471	51,499	247,826,004
<b>479,273</b>	<b>371,484</b>	<b>3,437,874</b>	<b>69,114</b>	<b>98,585</b>	<b>10,613,852</b>	<b>96,418</b>	<b>612,866,530</b>
.....	.....	48,638	.....	.....	.....	.....	71,355,033
588	2,206	10,265	6,131	10	251,919	.....	9,267,653
3,368	2,865	27,809	50	118	457,604	190	6,668,147
3,956	5,062	86,712	6,181	128	709,523	190	87,290,833
193,159	180,538	1,743,836	34,478	37,682	4,202,471	51,499	247,826,004
107	141	408	472	64	49,242	15	2,783,591
193,266	180,679	1,744,244	34,950	37,746	4,251,713	51,514	250,609,595
81,155	23,835	380,565	5,248	9,700	489,375	5,592	78,253,470
.....	.....	.....	.....	.....	.....	.....	2,316,958
200,896	161,908	1,227,455	22,735	51,011	5,163,241	39,122	194,402,110
.....	.....	1,102	.....	.....	.....	.....	6,436
282,051	185,743	1,606,918	27,983	60,711	5,652,616	44,714	274,966,102
<b>479,273</b>	<b>371,484</b>	<b>3,437,874</b>	<b>69,114</b>	<b>98,585</b>	<b>10,613,852</b>	<b>96,418</b>	<b>612,866,530</b>
116,206	109,919	977,443	14,459	23,766	3,316,025	26,455	177,430,093
7,573	1,825	11,860	44	628	37,986	5	2,559,190
<b>123,779</b>	<b>111,744</b>	<b>989,303</b>	<b>14,503</b>	<b>24,394</b>	<b>3,354,011</b>	<b>26,460</b>	<b>179,989,283</b>
82,557	82,886	667,485	5,563	16,312	2,316,186	16,523	116,983,928
2,543	.....	.....	.....	.....	.....	.....	516,699
10,191	2,744	102,674	1,863	1,587	323,855	2,482	17,301,943
13,159	8,057	50,680	1,016	1,430	438,647	2,440	14,863,076
.....	533	36,734	.....	.....	.....	.....	7,048,240
8,637	4,608	52,842	794	1,740	210,802	1,182	10,306,237
.....	.....	.....	.....	.....	.....	.....	22,506
<b>117,087</b>	<b>98,828</b>	<b>910,415</b>	<b>9,236</b>	<b>21,069</b>	<b>3,289,490</b>	<b>22,627</b>	<b>167,042,629</b>
<b>6,692</b>	<b>12,916</b>	<b>78,888</b>	<b>5,267</b>	<b>3,325</b>	<b>64,521</b>	<b>3,833</b>	<b>12,946,654</b>
1,045	754	6,798	197	330	40,423	304	1,273,866

Municipal Electrical Utilities Financial

Northern Ontario Properties

Municipality.....	Atikokan Twp. 7,456	Cache Bay 896	Capreol 2,730	Chapleau Twp. 3,696	Cochrane 4,368	Coniston 2,569
Population.....	7,456	896	2,730	3,696	4,368	2,569
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	492,449	55,191	208,041	138,304	405,371	111,094
Accumulated depreciation.....	69,128	10,325	31,017	5,635	67,297	10,316
Net fixed assets.....	423,321	44,866	177,024	132,669	338,074	100,778
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	55,211	1,674	22,244	20,507	25,124	10,240
Investment in government securities	50,000	11,804	.....	.....	.....	.....
Accounts receivable.....	8,097	1,668	1,520	4,309	1,947	14,627
Total current assets.....	113,308	15,146	23,764	24,816	27,071	24,867
<b>OTHER ASSETS</b>						
Inventory of stores.....	2,220	458	.....	.....	11,778	.....
Sinking fund on local debentures...	.....	.....	.....	.....	.....	.....
Miscellaneous.....	13,062	1,307	4,743	5,936	10,475	393
Total other assets.....	15,282	1,765	4,743	5,936	22,253	393
Equity in Ontario Hydro Systems....	58,530	652	1,554	.....	1,934	.....
	<b>610,441</b>	<b>62,429</b>	<b>207,085</b>	<b>163,421</b>	<b>389,332</b>	<b>126,038</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	348,000	8,000	86,200	95,000	93,000	43,500
Accounts payable.....	5,116	.....	950	1,241	5,278	15,242
Other.....	40,005	105	2,983	3,361	12,087	7,471
Total liabilities.....	393,121	8,105	90,133	99,602	110,365	66,213
<b>RESERVES</b>						
Equity in Ontario Hydro Systems...	58,530	652	1,554	.....	1,934	.....
Other.....	.....	66	470	123	232	324
Total reserves.....	58,530	718	2,024	123	2,166	324
<b>CAPITAL</b>						
Debentures redeemed.....	52,000	20,000	35,800	20,000	52,000	6,500
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	106,790	33,606	79,128	43,696	224,801	53,001
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	158,790	53,606	114,928	63,696	276,801	59,501
	<b>610,441</b>	<b>62,429</b>	<b>207,085</b>	<b>163,421</b>	<b>389,332</b>	<b>126,038</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	271,342	28,368	105,745	138,864	173,509	58,692
Other.....	5,666	546	270	19	3,949	210
Total revenue.....	<b>277,008</b>	<b>28,914</b>	<b>106,015</b>	<b>138,883</b>	<b>177,458</b>	<b>58,902</b>
<b>EXPENSE</b>						
Power purchased.....	193,754	19,318	70,906	83,873	90,629	36,215
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	14,907	1,200	7,709	8,550	21,147	2,677
Administration.....	32,052	2,078	14,194	9,236	23,959	4,851
Fixed charges—interest and principal	31,290	2,405	4,974	9,683	12,262	4,196
—depreciation.....	11,538	1,404	4,729	2,801	9,983	2,377
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>283,541</b>	<b>26,405</b>	<b>102,512</b>	<b>114,143</b>	<b>157,980</b>	<b>50,316</b>
Net income or net expense.....	<b>6,533</b>	<b>2,509</b>	<b>3,503</b>	<b>24,740</b>	<b>19,478</b>	<b>8,586</b>
Number of customers.....	1,927	201	953	959	1,299	668

Statements for the Year Ended December 31, 1960

Dryden	Espanola	Fort William	Hearst	Kapuskasing	Larder Lake Twp.	Latchford	Massey	McGarry
5,740	5,068	43,968	2,102	6,444	1,990	437	1,325	2,944
\$	\$	\$	\$	\$	\$	\$	\$	\$
515,124	258,282	3,963,205	214,523	388,733	63,778	31,549	82,386	72,570
95,843	43,872	759,937	28,176	16,939	23,068	6,167	6,257	16,651
419,281	214,410	3,203,268	186,347	371,794	40,710	25,382	76,129	55,919
42	22,011	295,183	23,506	1,188	13,337	5,800	6,468	9,607
.....	.....	85,500	40,000	.....	.....	.....	.....	.....
3,343	18,678	113,678	7,771	2,430	724	2,935	1,373	437
3,385	40,689	494,361	71,277	3,618	14,061	8,735	7,841	10,044
11,941	.....	126,420	.....	7,727	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
266	5,468	11,844	4,867	13,872	2,259	.....	2,717	231
12,207	5,468	138,264	4,867	21,599	2,259	.....	2,717	231
60,776	.....	4,550,221	.....	3,556	878	113	.....	849
<b>495,649</b>	<b>260,567</b>	<b>8,386,114</b>	<b>262,491</b>	<b>400,567</b>	<b>57,908</b>	<b>34,230</b>	<b>86,687</b>	<b>67,043</b>
65,503	145,000	508,000	59,100	37,462	5,900	.....	36,500	5,000
38,003	19,542	110,074	1,406	17,174	1,553	44	215	13
18,862	7,773	87,496	10,624	9,682	6,211	365	1,658	5,467
122,368	172,315	705,570	71,130	64,318	13,664	409	38,373	10,480
60,776	.....	4,550,221	.....	3,556	878	113	.....	849
454	.....	2,909	467	518	135	39	.....	.....
61,230	.....	4,553,130	467	4,074	1,013	152	.....	849
60,927	.....	556,209	80,900	53,017	12,100	18,901	8,500	9,000
.....	.....	.....	.....	.....	.....	.....	.....	.....
251,124	88,252	2,571,205	109,994	279,158	31,131	14,768	39,814	46,714
.....	.....	.....	.....	.....	.....	.....	.....	.....
312,051	88,252	3,127,414	190,894	332,175	43,231	33,669	48,314	55,714
<b>495,649</b>	<b>260,567</b>	<b>8,386,114</b>	<b>262,491</b>	<b>400,567</b>	<b>57,908</b>	<b>34,230</b>	<b>86,687</b>	<b>67,043</b>
207,715	43,169	1,697,212	86,615	205,943	52,054	10,509	42,659	55,859
5,770	192	31,733	1,400	3,443	91	.....	.....	46
<b>213,485</b>	<b>43,361</b>	<b>1,728,945</b>	<b>88,015</b>	<b>209,386</b>	<b>52,145</b>	<b>10,509</b>	<b>42,659</b>	<b>55,905</b>
117,013	26,354	1,098,990	61,920	129,673	36,624	7,296	19,060	37,680
.....	.....	.....	.....	.....	.....	.....	.....	.....
34,065	2,199	163,716	6,115	14,893	3,828	553	7,580	3,149
25,357	5,247	128,690	7,157	27,840	5,231	938	6,903	7,052
10,114	3,231	49,385	8,600	6,474	1,562	.....	3,886	1,240
12,011	1,663	98,007	3,919	7,661	2,104	846	1,782	2,014
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>198,560</b>	<b>38,694</b>	<b>1,538,788</b>	<b>87,711</b>	<b>186,541</b>	<b>49,349</b>	<b>9,633</b>	<b>39,211</b>	<b>51,135</b>
<b>14,925</b>	<b>4,667</b>	<b>190,157</b>	<b>304</b>	<b>22,845</b>	<b>2,796</b>	<b>876</b>	<b>3,448</b>	<b>4,770</b>
1,691	1,289	13,719	719	2,015	561	155	356	480

## Municipal Electrical Utilities Financial

## Northern Ontario Properties—Concluded

Municipality.....	Nipigon Twp.	North Bay	Port Arthur	Rainy River	Red Rock	Schreiber Twp.
Population.....	2,700	23,010	42,581	1,198	1,740	2,165
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	161,097	1,716,546	4,752,047	81,806	98,172	135,003
Accumulated depreciation.....	27,071	383,931	1,544,095	41,739	19,742	21,531
Net fixed assets.....	134,026	1,332,615	3,207,952	40,067	78,430	113,472
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	17,184	27,764	116,823	24,222	19,460	10,678
Investment in government securities	15,000	.....	247,000	.....	.....	24,890
Accounts receivable.....	1,316	26,786	173,128	6,068	697	1,176
Total current assets.....	33,500	54,550	536,951	30,290	20,157	36,744
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	35,576	217,093	1,714	1,738	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	7,732	3,987	.....	1,833	.....
Total other assets.....	.....	43,308	221,080	1,714	3,571	.....
Equity in Ontario Hydro Systems.....	90,016	14,385	8,345,047	.....	33,570	41,821
	<b>257,542</b>	<b>1,444,858</b>	<b>12,311,030</b>	<b>72,071</b>	<b>135,728</b>	<b>192,037</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	348,000	.....	8,000	13,130	.....
Accounts payable.....	443	44,572	162,113	106	48	46
Other.....	2,757	76,837	.....	300	170	.....
Total liabilities.....	3,200	469,409	162,113	8,406	13,348	46
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	90,016	14,385	8,345,047	.....	33,570	41,821
Other.....	.....	2,118	109,882	519	.....	.....
Total reserves.....	90,016	16,503	8,454,929	519	33,570	41,821
<b>CAPITAL</b>						
Debentures redeemed.....	10,000	312,158	626,317	18,087	18,070	50,000
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	154,326	646,788	3,067,671	45,059	70,740	100,170
Frequency standardization expense charged this year.....	.....	.....	.....	.....	.....	.....
Total capital.....	164,326	958,946	3,693,988	63,146	88,810	150,170
	<b>257,542</b>	<b>1,444,858</b>	<b>12,311,030</b>	<b>72,071</b>	<b>135,728</b>	<b>192,037</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	71,901	909,260	1,777,331	61,375	37,710	54,878
Other.....	3,081	4,387	45,753	1,721	310	1,220
<b>Total revenue.....</b>	<b>74,982</b>	<b>913,647</b>	<b>1,823,084</b>	<b>63,096</b>	<b>38,020</b>	<b>56,098</b>
<b>EXPENSE</b>						
Power purchased.....	49,658	529,722	1,246,147	27,318	25,127	33,672
Local generation.....	.....	.....	19,419	.....	.....	.....
Operation and maintenance.....	9,443	95,236	174,281	9,595	1,961	5,250
Administration.....	8,208	113,939	149,820	8,797	3,710	8,374
Fixed charges—interest and principal	.....	34,130	.....	4,330	2,196	.....
—depreciation.....	3,861	45,628	83,998	3,096	2,547	3,275
—other.....	.....	.....	.....	.....	.....	.....
<b>Total expense.....</b>	<b>71,170</b>	<b>818,655</b>	<b>1,673,665</b>	<b>53,136</b>	<b>35,541</b>	<b>50,571</b>
<b>Net income or net expense.....</b>	<b>3,812</b>	<b>94,992</b>	<b>149,419</b>	<b>9,960</b>	<b>2,479</b>	<b>5,527</b>
Number of customers.....	731	7,499	13,673	452	331	647



## Statements for the Year Ended December 31, 1960

Sioux Lookout	Sturgeon Falls	Sudbury	Terrace Bay	Thessalon	Webbwood	West Ferris Twp.	TOTAL NORTHERN ONTARIO PROPERTIES	TOTAL ALL SYSTEMS
2,645	6,288	77,356	1,900	1,717	590	5,096		
\$ 214,735 27,136	\$ 335,476 44,248	\$ 5,517,019 836,782	\$ 178,484 38,154	\$ 116,966 23,226	\$ 39,132 2,482	\$ 530,163 37,499	\$ 20,877,246 4,238,264	\$ 413,611,989 82,246,973
187,599	291,228	4,680,237	140,330	93,740	36,650	492,664	16,638,982	331,365,016
10,726	150	175,619	29,945	2,409	2,055	18,507	967,684	12,250,801
5,000	.....	75,150	65,000	.....	.....	.....	619,344	13,990,120
6,369	15,255	200,684	763	4,518	1,074	6,363	627,734	12,868,807
22,095	15,405	451,453	95,708	6,927	3,129	24,870	2,214,762	39,109,728
6,459	.....	83,986	.....	.....	.....	2,089	509,199	9,197,511
.....	.....	.....	.....	.....	.....	.....	.....	2,316,958
.....	3,932	30,428	.....	3,412	1,623	8,945	139,332	2,553,588
6,459	3,932	114,414	.....	3,412	1,623	11,034	648,531	14,068,057
.....	2,338	.....	68,704	702	.....	.....	13,275,646	261,101,650
<b>216,153</b>	<b>312,903</b>	<b>5,246,104</b>	<b>304,742</b>	<b>104,781</b>	<b>41,402</b>	<b>528,568</b>	<b>32,777,921</b>	<b>645,644,451</b>
.....	98,500	634,044	39,000	54,000	24,312	319,500	3,074,651	74,429,684
4,400	24,310	759,539	.....	1,938	251	4,112	1,217,729	10,485,382
6,647	10,535	139,284	.....	1,489	291	25,917	478,377	7,146,524
11,047	133,345	1,532,867	39,000	57,427	24,854	349,529	4,770,757	92,061,590
.....	2,338	.....	68,704	702	.....	.....	13,275,646	261,101,650
.....	526	17,051	.....	.....	74	507	136,414	2,920,005
.....	2,864	17,051	68,704	702	74	507	13,412,060	264,021,655
.....	21,500	866,882	39,000	11,000	5,689	48,000	3,012,557	81,266,027
.....	.....	.....	.....	.....	.....	.....	.....	2,316,958
205,106	155,194	2,829,304	158,038	35,652	10,785	130,532	11,582,547	205,984,657
.....	.....	.....	.....	.....	.....	.....	.....	6,436
205,106	176,694	3,696,186	197,038	46,652	16,474	178,532	14,595,104	289,561,206
<b>216,153</b>	<b>312,903</b>	<b>5,246,104</b>	<b>304,742</b>	<b>104,781</b>	<b>41,402</b>	<b>528,568</b>	<b>32,777,921</b>	<b>645,644,451</b>
131,414	147,625	2,444,115	58,249	59,769	18,324	219,402	9,169,608	186,599,701
1,031	448	40,639	3,227	142	.....	6,386	161,680	2,720,870
<b>132,445</b>	<b>148,073</b>	<b>2,484,754</b>	<b>61,476</b>	<b>59,911</b>	<b>18,324</b>	<b>225,788</b>	<b>9,331,288</b>	<b>189,320,571</b>
81,882	91,923	1,336,528	38,483	28,664	6,123	125,881	5,650,433	122,634,361
.....	.....	.....	.....	.....	.....	.....	19,419	536,118
12,926	14,409	324,952	2,913	4,245	4,511	19,211	971,221	18,273,164
16,768	21,292	226,171	5,121	12,703	2,677	24,805	903,170	15,766,246
.....	10,571	149,611	5,498	5,065	2,628	28,985	392,316	7,440,556
4,961	7,901	107,183	4,733	2,992	826	10,633	444,473	10,750,710
.....	.....	.....	.....	.....	.....	.....	.....	22,506
<b>116,537</b>	<b>146,096</b>	<b>2,144,445</b>	<b>56,748</b>	<b>53,669</b>	<b>16,765</b>	<b>209,515</b>	<b>8,381,032</b>	<b>175,423,661</b>
<b>15,908</b>	<b>1,977</b>	<b>340,309</b>	<b>4,728</b>	<b>6,242</b>	<b>1,559</b>	<b>16,273</b>	<b>950,256</b>	<b>13,896,910</b>
943	1,613	22,216	428	534	155	1,835	78,049	1,351,915

## INTRODUCTION TO STATEMENT "C" AND STATEMENT "D"

### STATEMENT "C"

Statement "C" is the schedule of resale rates for residential, commercial, and industrial power service in the municipal distribution systems receiving power from the Commission. From time to time as revision becomes necessary, these rates are adjusted to the rate structures first introduced in 1956.

#### **Description of Classes of Service**

Residential rates are applicable to all electrical service for household purposes, with the exception of house heating and flat-rate water-heaters. Charges for normal residential service are based on specified blocks of kilowatt-hours per month with suitable rates for each block. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. For comparative purposes, net monthly bills are shown for metered energy consumptions of 100, 300, and 500 kilowatt-hours per month.

The water-heater rates shown in Statement "C" are for unmetered flat-rate service which is billed at a monthly rate per 100 watts of heater capacity. In many municipalities the flat-rate water-heater load is subject to peak-load control by the utility. The customer, of course, has the option of paying for water heating at regular rates through the regular metered service. House-heating rates quoted are for separately metered consumption where an area greater than 25 per cent of the total is heated by electricity.

Commercial rates are applicable to all electrical service supplied to stores, offices, churches, schools, public buildings, institutions, hospitals, hotels, restaurants, service stations, and other premises used for commercial purposes. The commercial rates are also used for billing sign and display lighting. In most municipalities on the new rate structures, commercial-type customers having connected loads of less than five kilowatts are billed at residential rates. Rates for industrial power service to customers of the municipal systems provide for 24-hour unrestricted delivery at secondary distribution voltage. These rates, however, are not applicable to the Commission's direct industrial customers.

Commercial and industrial power service accounts consist of a monthly demand rate (with a minimum for commercial service) applied to the customer's billing demand, plus energy charges for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. All additional energy is billed at the end rate per kilowatt-hour. Under the 1956 rate structures the two specified blocks for industrial power service are twice as large as those under the former structures. The accounts are subject to a prompt payment discount of 10 per cent. Industrial power service customers providing their own step-down transformation are granted, on the basis of their

billing demand, an allowance of 27¢ per kilowatt per month gross for service at subtransmission voltage and 17¢ per kilowatt per month gross for service at primary distribution voltage. The net monthly bills shown for commercial and industrial power service are calculated on the basis of a demand of one kilowatt for a use per month of 100, 200, and 300 hours. The corresponding bill for a demand of 10 kilowatts would be ten times the amounts shown, for 20 kilowatts twenty times the amounts shown, and so on.

#### STATEMENT "D"

Statement "D" records revenue, consumption, number of customers, average consumption per customer, and average cost per kilowatt-hour for each of the three main classes of service in all the municipal systems served. The revenue and consumption from house heating and the use of flat-rate water-heaters are included in the totals shown, the flat-rate water-heater kilowatt-hours being estimated on the basis of 16.8 hours' use per day.

When a municipal utility adopts the 1956 rate structures, a substantial number of commercial service customers having small connected loads (under 5 kilowatts) may be transferred to residential service billing, and certain small industrial power service customers may be reclassified under commercial service. In order to correct distortions in the calculation of average consumption per customer that would result from these changes, estimated averages are substituted for the arithmetic averages in the year the changes are made.

The average cost per kilowatt-hour shown is the average cost to the customer, that is the average revenue per kilowatt-hour received by the utility. Such a statistical average does not represent the utility's actual cost of delivering one kilowatt-hour. However, a comparison of this average over a number of years is some indication of the trend of cost in any one municipality, and the trend in all municipal systems combined may be seen in the table on page 164 and the graphs on page 165. Other things being equal, the average cost per kilowatt-hour would rise with an increase in rates. Consumption per customer, however, is continuously increasing, and residential customers in particular are using an ever-increasing variety of electrical appliances, including flat-rate water-heaters. This increased use, since it is billed at the low rates usually applicable to higher-consumption blocks of kilowatt-hours, is frequently reflected in a lower average cost per kilowatt-hour.

For industrial power service customers, the relationship between demand (kilowatts required) and energy (kilowatt-hours of use) is an important factor in establishing the customer's average cost per kilowatt-hour. The use of the demand for only a few hours will result in a relatively small total bill but a high average cost per kilowatt-hour; the use of the same demand for several hours will increase the total bill but substantially reduce the average cost per kilowatt-hour. In other words, the average cost per kilowatt-hour varies inversely with the customer's load factor.

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Acton.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Ailsa Craig.....	45	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Ajax.....	37	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Alexandria.....	40	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alfred.....	42	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Alliston.....	43	1.67	60	3.1	....	....	1.0	2.03	3.83	5.63
Almonte.....	35	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alvinston.....	45	1.67	60	3.5	....	....	1.0	2.25	4.05	5.85
Amherstburg.....	38	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Ancaster Twp. (including Ancaster).....	43	....	60	4.2	....	....	1.2	2.70	4.86	7.02
Apple Hill.....	56	....	60	4.0	....	....	1.0	2.52	4.32	6.12
Arkona.....	43	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Arnprior.....	37	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Arthur.....	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Athens.....	40	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Atikokan Twp.....	40	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Aurora.....	37	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Avonmore.....	40	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Aylmer.....	36	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Ayr.....	44	....	60	2.9	....	....	1.0	1.93	3.73	5.53
Baden.....	40	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
†Bala.....	41	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Bancroft.....	53	1.67	60	3.5	....	....	1.3	2.36	4.70	7.04
Barrie.....	40	1.67	60	2.4	....	....	1.0	1.66	3.46	5.26
Barry's Bay.....	42	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Bath.....	39	1.67	60	3.5	....	....	1.2	2.32	4.48	6.64
Beachville.....	42	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Beamsville.....	41	1.67	60	2.7	....	....	1.2	1.89	4.05	6.21
†Beardmore.....	45	1.67	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Beaverton.....	40	1.67	60	2.8	....	....	1.2	1.94	4.10	6.26
Beeton.....	45	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Belle River.....	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Belleville.....	35	1.67	60	1.8	....	....	0.8	1.26	2.70	4.14
Blenheim.....	44	1.67	50	3.0	1.5	....	0.9	2.02	4.45	6.07
†Blind River.....	45	1.67	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Bloomfield.....	42	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Blyth.....	45	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Bobcaygeon.....	40	1.67	60	3.4	....	....	1.2	2.27	4.43	6.59
Bolton.....	45	1.78	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Bothwell.....	45	1.67	60	2.6	....	....	1.0	1.76	3.56	5.36

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.6	...	1.0	2.79	3.69	4.59	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
3.0	...	0.9	3.15	3.96	4.77	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
3.6	...	1.0	3.69	4.59	5.49	1.35	2.9	....	1.9	....	0.33	3.37	3.67	3.97
3.5	...	1.0	3.60	4.50	5.40	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
°2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°1.5	0.8	0.5	1.80	2.52	2.97	1.00	...	1.0	....	0.5	0.33	1.80	2.25	2.55
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.4	...	0.9	2.61	3.42	4.23	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
°4.2	0.8	0.5	4.23	4.95	5.40	1.00	...	2.7	....	0.5	0.33	3.33	3.78	4.08
3.0	...	1.2	3.15	4.23	5.31	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.0	...	0.8	2.25	2.97	3.69	1.00	1.4	....	0.9	....	0.25	1.93	2.16	2.38
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
3.0	...	1.2	3.15	4.23	5.31	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.3	...	1.1	2.52	3.51	4.50	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
°3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	....	0.5	0.33	3.51	3.96	4.26
2.2	...	1.0	2.43	3.33	4.23	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
1.6	...	0.6	1.89	2.43	2.97	1.00	1.3	....	0.8	....	0.25	1.84	2.07	2.29
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
°3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.7	....	0.5	0.33	3.33	3.78	4.08
°1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.9	...	1.0	3.06	3.96	4.86	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.1	...	0.7	2.34	2.97	3.60	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Bowmanville.....	35	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Bracebridge.....	39	1.67	60	3.0	....	....	1.2	2.05	4.21	6.37
Bradford.....	40	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Braeside.....	36	1.67	50	2.6	1.3	....	1.1	1.75	4.00	5.98
Brampton.....	37	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Brantford.....	41	1.67	60	2.2	....	....	1.2	1.62	3.78	5.94
§§ Brantford Twp.....	42	2.0	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Brechin.....	45	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Bridgeport.....	40	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Bridgen.....	45	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Brighton.....	39	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Brockville.....	38	1.67	60	2.0	....	....	1.0	1.44	3.24	5.04
Brussels.....	45	1.67	60	3.2	....	....	1.0	2.09	3.89	5.69
Burford.....	43	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Burgessville.....	43	1.67	60	4.0	....	....	1.0	2.52	4.32	6.12
Burk's Falls.....	45	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
§ Burlington.....	42	1.67	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Cache Bay.....	43	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Caledonia.....	43	....	60	2.4	....	....	1.2	1.73	3.89	6.05
Campbellford.....	35	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Campbellville.....	50	....	60	3.0	....	....	1.3	2.09	4.43	6.77
Cannington.....	48	1.67	60	3.2	....	....	1.0	2.09	3.89	5.69
Capreol.....	43	....	60	3.5	....	....	1.3	2.36	4.70	7.04
Cardinal.....	40	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Carleton Place.....	39	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Casselman.....	41	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Cayuga.....	42	....	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Chalk River.....	38	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Chapleau Twp.....	....	....	60	9.0	....	....	4.0	6.30	13.50	20.70
Chatham.....	41	1.67	60	3.8	....	....	1.4	2.56	5.08	7.60
Chatsworth.....	46	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Chesley.....	41	1.67	60	2.7	....	....	1.0	1.82	3.62	5.42
Chesterville.....	41	1.67	60	2.7	....	....	1.1	1.85	3.83	5.81
Chippawa.....	40	....	60	3.1	....	....	1.4	2.18	4.70	7.22
Clifford.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Clinton.....	41	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
† Cobalt.....	42	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Cobden.....	33	1.67	50	1.6	0.8	0.5	1.0	1.08	2.38	3.28
Cobourg.....	41	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Cochrane.....	35	....	60	3.4	....	....	1.5	2.38	5.08	7.78

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE									
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand			
Energy rate per kwh for use of each kw of demand															
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	
¢1.7	¢0.8	¢0.5	\$1.98	\$2.70	\$3.15	\$1.00	¢...	¢1.2	....	¢0.5	¢0.33	\$1.98	\$2.43	\$2.73	
2.0	...	1.0	2.25	3.15	4.05	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36	
1.8	...	0.7	2.07	2.70	3.33	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65	
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
1.7	...	0.8	1.98	2.70	3.42	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65	
2.7	...	0.8	2.88	3.60	4.32	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88	
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
3.5	...	0.8	3.60	4.32	5.04	1.35	2.9	....	1.9	....	0.33	3.37	3.67	3.97	
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72	
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63	
¢3.5	0.8	0.5	3.60	4.32	4.77	1.00	...	3.0	....	0.5	0.33	3.60	4.05	4.35	
1.9	...	1.1	2.16	3.15	4.14	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52	
¢1.2	0.8	0.5	1.53	2.25	2.70	1.00	...	0.7	....	0.5	0.33	1.53	1.98	2.28	
2.8	...	1.1	2.97	3.96	4.95	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42	
2.8	...	0.9	2.97	3.78	4.59	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43	
3.0	...	1.1	3.15	4.14	5.13	1.35	2.9	....	1.9	....	0.33	3.37	3.67	3.97	
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91	
8.5	...	4.0	8.10	11.70	15.30	1.35	5.7	....	3.8	....	2.00	5.49	7.29	9.09	
3.3	...	1.2	3.42	4.50	5.58	1.35	2.0	....	1.3	....	0.40	2.70	3.00	3.29	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.3	...	1.0	2.52	3.42	4.32	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
2.2	...	1.1	2.43	3.42	4.41	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29	
2.6	...	1.3	2.79	3.96	5.13	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
¢3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
¢1.3	0.8	0.5	1.62	2.34	2.79	1.00	...	0.8	....	0.5	0.33	1.62	2.07	2.37	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
2.9	...	1.4	3.06	4.32	5.58	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52	

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Colborne.....	43	1.67	60	3.8	....	....	1.0	2.41	4.21	6.01
Coldwater.....	40	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Collingwood.....	41	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Comber.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Coniston.....	42	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Cookstown.....	45	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Cottam.....	41	....	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Courtright.....	43	....	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Creemore.....	44	1.67	50	3.1	....	....	1.0	1.84	3.64	5.44
Dashwood.....	45	....	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Deep River.....	40	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Delaware.....	44	1.67	60	3.8	....	....	1.4	2.56	5.08	7.60
Delhi.....	43	1.80	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Deseronto.....	40	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Dorchester.....	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Drayton.....	44	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Dresden.....	44	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Drumbo.....	45	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dryden.....	35	1.67	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Dublin.....	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dundalk.....	44	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dundas.....	40	1.67	60	2.8	....	....	1.1	1.91	3.89	5.87
Dunnville.....	45	1.78	60	2.6	....	....	1.5	1.94	4.64	7.34
Durham.....	42	1.67	60	2.7	....	....	1.1	1.85	3.83	5.81
Dutton.....	47	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
East York Twp.....	37	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Eganville.....	42	1.67	60	4.3	....	....	1.1	2.72	4.70	6.68
†Elk Lake Townsite.....	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Elmira.....	45	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Elmvale.....	40	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Elmwood.....	39	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Elora.....	44	1.67	60	3.2	....	....	1.4	2.23	4.75	7.27
Embro.....	44	1.67	60	3.3	....	....	1.1	2.18	4.16	6.14
†Englehart.....	42	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Erieau.....	45	1.67	50	2.8	1.4	....	0.8	1.89	4.14	5.58
Erie Beach.....	45	1.67	50	4.0	2.0	....	1.1	2.70	5.89	7.87
Erin.....	40	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Espanola.....	40	1.67	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Essex.....	43	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Etobicoke Twp. (including Thistletown)	40	1.67	60	4.0	....	....	1.3	2.63	4.97	7.31

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
3.0	...	1.0	3.15	4.05	4.95	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.6	...	0.9	2.79	3.60	4.41	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
3.4	...	1.4	3.51	4.77	6.03	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.6	....	0.5	0.33	3.24	3.69	3.99
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.3	...	1.0	2.52	3.42	4.32	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
2.2	...	1.5	2.43	3.78	5.13	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52
2.4	...	1.0	2.61	3.51	4.41	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
3.8	...	1.0	3.87	4.77	5.67	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.8	...	1.4	2.97	4.23	5.49	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
2.7	...	0.7	2.88	3.51	4.14	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
3.5	0.8	0.5	3.60	4.32	4.77	1.00	...	2.6	....	0.5	0.33	3.24	3.69	3.99
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Exeter.....	45	1.67	60	3.0	....	....	1.3	2.09	4.43	6.77
Fergus.....	41	1.67	60	3.3	....	....	1.3	2.25	4.59	6.93
Finch.....	42	....	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Flesherton.....	37	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Fonthill.....	41	1.67	60	3.0	....	....	1.3	2.09	4.43	6.77
Forest.....	41	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Forest Hill.....	37	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Fort William.....	31	1.67	60	2.0	....	....	0.8	1.37	2.81	4.25
Frankford.....	36	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Galt.....	40	1.67	60	3.0	....	....	1.1	2.02	4.00	5.98
Georgetown.....	39	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Glen Williams.....	39	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
†Geraldton.....	45	1.67	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Glencoe.....	45	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Goderich.....	42	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
†Gogama.....	45	1.67	50	7.0	3.5	....	1.6	4.72	10.17	13.05
Grand Bend.....	45	1.78	60	4.4	....	....	1.5	2.92	5.62	8.32
Grand Valley.....	50	1.67	60	3.0	....	....	1.2	2.05	4.21	6.37
Granton.....	50	....	60	3.9	....	....	1.4	2.61	5.13	7.65
Gravenhurst.....	40	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Grimsby.....	43	1.67	60	2.5	....	....	1.1	1.75	3.73	5.71
Guelph.....	34	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Hagersville.....	41	1.67	60	2.8	....	....	1.1	1.91	3.89	5.87
†Haileybury.....	42	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Hamilton.....	43	1.67	60	2.6	....	....	1.1	1.80	3.78	5.76
Hanover.....	38	1.67	60	2.2	....	....	1.0	1.55	3.35	5.15
Harriston.....	39	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Harrow.....	43	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Hastings.....	38	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Havelock.....	40	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Hawkesbury.....	36	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Hearst.....	60	1.67	50	4.6	2.3	1.3	1.6	3.10	6.79	9.13
Hensall.....	45	1.67	60	3.2	....	....	1.0	2.09	3.89	5.69
†Hepworth.....	45	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Hespeler.....	42	1.67	60	3.2	....	....	1.1	2.12	4.10	6.08
Highgate.....	45	1.67	60	3.2	....	....	0.9	2.05	3.67	5.29
Holstein.....	41	1.67	60	3.0	....	....	1.0	1.98	3.78	5.58
†Hornepayne.....	60	....	60	8.0	....	....	2.0	5.04	8.64	12.24
†Hudson Townsite.....	45	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Huntsville.....	41	1.67	60	2.4	....	....	1.2	1.73	3.89	6.05
Ingersoll.....	44	1.67	60	3.4	....	....	1.3	2.30	4.64	6.98

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.

# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand														
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$		\$	¢	¢	¢	¢	¢	\$	\$
2.6	...	0.8	2.79	3.51	4.23	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.8	...	1.1	2.97	3.96	4.95	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
*2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
*1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	....	0.5	0.33	1.80	2.25	2.55
2.5	...	1.2	2.70	3.78	4.86	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
*2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
*1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
1.9	...	0.4	2.16	2.52	2.88	1.00	1.4	....	0.9	....	0.25	1.93	2.16	2.38
*1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
2.5	...	1.0	2.70	3.60	4.50	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
*2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
*2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
*3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	....	0.5	0.33	3.51	3.96	4.26
*2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
*2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
5.8	0.8	0.5	5.67	6.39	6.84	1.00	...	5.1	....	0.5	0.33	5.49	5.94	6.24
3.9	...	1.3	3.96	5.13	6.30	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
2.5	...	1.2	2.70	3.78	4.86	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
3.4	...	1.3	3.51	4.68	5.85	1.35	2.6	....	1.7	....	0.33	3.15	3.45	3.74
*1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
2.0	...	1.0	2.25	3.15	4.05	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
*2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
2.3	...	0.9	2.52	3.33	4.14	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
*3.6	0.8	0.5	3.69	4.41	4.86	1.00	....	2.4	....	0.5	0.33	3.06	3.51	3.81
c1.9	...	0.7	2.16	2.79	3.42	1.00	1.4	....	0.9	....	0.40	1.93	2.29	2.65
1.7	...	1.0	1.98	2.88	3.78	1.00	1.5	....	0.9	....	0.30	1.98	2.25	2.52
*2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
*2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
*2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
*2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
*3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
*3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.2	....	0.5	0.33	3.78	4.23	4.53
2.7	...	0.9	2.88	3.69	4.50	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
*3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.6	...	0.9	2.79	3.60	4.41	1.20	1.6	....	1.0	....	0.33	2.25	2.55	2.84
2.8	...	0.7	2.97	3.60	4.23	1.35	2.6	....	1.7	....	0.33	3.15	3.45	3.74
2.5	...	0.8	2.70	3.42	4.14	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42
7.5	...	2.0	7.20	9.00	10.80	1.35	4.9	....	3.3	....	0.33	4.90	5.20	5.50
*3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71
2.2	...	1.1	2.43	3.42	4.41	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
2.8	...	0.8	2.97	3.69	4.41	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Iroquois.....	40	1.67	60	2.8	....	....	1.2	1.94	4.10	6.26
Jarvis.....	45	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
†Jellicoe Townsite.....	45	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Kapuskasing.....	35	....	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
†Kearns Townsite.....	45	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kemptville.....	40	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Kincardine.....	45	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
†King Kirkland Townsite.....	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kingston.....	38	1.67	60	1.8	....	....	0.9	1.30	2.92	4.54
Kingsville.....	40	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Kirkfield.....	45	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Kirkland Lake (including Swastika).....	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kitchener.....	39	1.67	60	2.6	....	....	1.3	1.87	4.21	6.55
Lakefield.....	34	1.67	55	2.8	....	....	1.0	1.79	3.59	5.39
Lambeth.....	43	1.67	60	3.5	....	....	1.3	2.36	4.70	7.04
Lanark.....	39	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Lancaster.....	39	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Larder Lake Twp.....	43	....	60	3.5	....	....	1.1	2.29	4.27	6.25
Latchford.....	44	....	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Leamington.....	41	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Lindsay.....	41	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Listowel.....	41	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
London.....	38	1.67	60	2.8	....	....	1.2	1.94	4.10	6.26
London Twp.....	39	....	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Long Branch.....	41	1.67	60	3.1	....	....	1.2	2.11	4.27	6.43
L'Orignal.....	40	1.67	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Lucan.....	45	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Lucknow.....	45	1.67	55	2.7	....	....	1.0	1.75	3.55	5.35
Lynden.....	43	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Madoc.....	40	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Magnetawan.....	45	1.67	50	4.2	2.1	1.2	1.6	2.83	6.21	8.37
Markdale.....	45	1.67	60	2.5	....	....	1.0	1.71	3.51	5.31
Markham.....	44	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Marmora.....	43	1.67	60	3.6	....	....	1.0	2.30	4.10	5.90
Martintown.....	38	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Massey.....	45	....	50	5.0	2.5	1.4	1.6	3.37	7.38	9.90
†Matachewan Twp.....	45	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
†Matheson.....	45	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
†Mattawa.....	45	1.67	50	5.2	2.6	....	1.6	3.51	7.74	10.62
Maxville.....	43	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.



# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand														
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	\$	\$	\$	
2.3	...	1.0	2.52	3.42	4.32	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
1.5	...	0.9	1.80	2.61	3.42	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.3	...	1.0	2.52	3.42	4.32	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.4	...	0.8	2.61	3.33	4.05	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
3.1	...	1.1	3.24	4.23	5.22	1.35	4.1	....	2.7	....	0.33	4.27	4.57	4.87
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
3.0	...	1.0	3.15	4.05	4.95	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.2	...	0.6	2.43	2.97	3.51	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.2	...	0.8	2.43	3.15	3.87	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
3.7	0.8	0.5	3.78	4.50	4.95	1.00	...	2.8	....	0.5	0.33	3.42	3.87	4.17
2.0	...	1.0	2.25	3.15	4.05	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
3.2	...	0.9	3.33	4.14	4.95	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
4.4	0.8	0.5	4.41	5.13	5.58	1.00	...	3.1	....	0.5	0.33	3.69	4.14	4.44
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
5.2	0.8	0.5	5.13	5.85	6.30	1.00	...	3.2	....	0.5	0.33	3.78	4.23	4.53
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$	
McGarry.....	40	1.67	60	3.5	....	....	1.1	2.29	4.27	6.25
Meaford.....	46	1.67	60	2.6	....	....	1.0	1.76	3.56	5.36
Merlin.....	44	1.67	60	3.1	....	....	1.0	2.03	3.83	5.63
Merrickville.....	38	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Merriton.....	40	1.67	60	3.2	....	....	1.3	2.20	4.54	6.88
Midland.....	39	1.67	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Mildmay.....	40	1.67	60	2.5	....	....	1.0	1.71	3.51	5.31
Millbrook.....	41	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Milton.....	43	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Milverton.....	45	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Mimico.....	37	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Mitchell.....	40	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Moorefield.....	43	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Morrisburg.....	40	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Mount Brydges.....	41	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Mount Forest.....	39	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Napanee.....	38	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Neustadt.....	37	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Newboro.....	38	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Newburgh.....	40	1.67	60	4.3	....	....	1.2	2.75	4.91	7.07
Newbury.....	50	....	60	4.0	....	....	1.0	2.52	4.32	6.12
Newcastle.....	43	1.67	60	3.0	....	....	0.9	1.94	3.56	5.18
New Hamburg.....	39	1.70	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
†New Liskeard.....	42	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Newmarket.....	40	....	60	2.5	....	....	1.0	1.71	3.51	5.31
New Toronto.....	37	1.67	60	2.6	....	....	1.2	1.84	4.00	6.16
Niagara.....	42	1.67	60	3.0	....	....	1.4	2.12	4.64	7.16
Niagara Falls.....	40	1.67	50	3.0	1.4	....	1.0	1.98	4.32	6.12
Nipigon Twp.....	30	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
North Bay.....	42	1.67	60	2.5	....	....	1.2	1.78	3.94	6.10
North York Twp.....	37	1.67	60	2.7	....	....	1.3	1.93	4.27	6.61
Norwich.....	46	....	60	3.4	....	....	1.2	2.27	4.43	6.59
Norwood.....	42	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Oakville.....	41	1.67	60	3.0	....	....	1.4	2.12	4.64	7.16
Trafalgar.....	37	1.67	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Oil Springs.....	45	1.79	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Omemee.....	41	1.67	60	3.3	....	....	1.0	2.14	3.94	5.74
Orangeville.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Orillia.....	36	1.67	60	2.3	....	....	0.9	1.57	3.19	4.81
Orono.....	38	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Oshawa.....	34	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand														
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
3.0	...	1.0	3.15	4.05	4.95	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
2.2	...	0.8	2.43	3.15	3.87	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.6	...	0.7	2.79	3.42	4.05	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
2.7	...	1.1	2.88	3.87	4.86	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
1.5	0.8	0.5	1.80	2.52	2.97	1.00	...	0.8	....	0.5	0.33	1.62	2.07	2.37
2.0	...	0.9	2.25	3.06	3.87	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	....	0.5	0.33	1.80	2.25	2.55
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
3.8	...	1.2	3.87	4.95	6.03	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
3.5	...	0.9	3.60	4.41	5.22	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42
2.5	...	0.8	2.70	3.42	4.14	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.2	...	1.0	2.43	3.33	4.23	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.5	...	1.2	2.70	3.78	4.86	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
2.0	...	0.9	2.25	3.06	3.87	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.2	...	1.1	2.43	3.42	4.41	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
3.0	...	1.0	3.15	4.05	4.95	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.5	...	1.3	2.70	3.87	5.04	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.8	...	0.8	2.97	3.69	4.41	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
1.8	...	0.8	2.07	2.79	3.51	1.00	1.4	....	0.9	....	0.30	1.93	2.20	2.47
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Ottawa (including East- view and Rockcliffe Park).....	32	....	a/60 \60	*/2.0 \1.0	....	....	*0.5	1.74	3.02	3.92
Otterville.....	43	1.67	60	3.0	....	....	1.0	1.98	3.78	5.58
Owen Sound.....	38	1.67	60	2.4	....	....	1.1	1.69	3.67	5.65
Paisley.....	45	1.67	60	3.5	....	....	1.0	2.25	4.05	5.85
Palmerston.....	44	....	60	2.6	....	....	1.0	1.76	3.56	5.36
Paris.....	42	1.67	60	2.8	....	....	1.3	1.98	4.32	6.66
Parkhill.....	44	1.78	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Perry Sound.....	42	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Penetanguishene.....	37	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Perth.....	37	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Peterborough.....	36	1.67	60	2.6	....	....	1.3	1.87	4.21	6.55
Petrolia.....	45	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Pickering.....	37	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
†Pickle Lake Landing Townsite.....	45	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Picton.....	41	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Plattsville.....	42	....	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Point Edward.....	38	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Port Arthur.....	34	1.67	60	2.0	....	....	0.8	1.37	2.81	4.25
Port Burwell.....	45	....	50	4.4	2.2	1.3	1.6	2.97	6.52	8.86
†Port Carling.....	41	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Port Colborne.....	41	1.67	60	2.8	....	....	1.2	1.94	4.10	6.26
Port Credit.....	38	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Port Dalhousie.....	40	1.78	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Port Dover.....	44	1.67	60	2.4	....	....	1.2	1.73	3.89	6.05
Port Elgin.....	45	1.80	60	3.5	....	....	1.3	2.36	4.70	7.04
Port Hope.....	40	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.00
Port McNicoll.....	39	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Port Perry.....	41	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Port Rowan.....	45	1.78	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Port St anley.....	45	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Powassan.....	42	1.67	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Prescott.....	37	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Preston.....	37	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Priceville.....	47	1.67	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Princeton.....	45	1.67	60	3.0	....	....	1.0	1.98	3.78	5.58
Queenston.....	40	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Rainy River.....	57	....	50	6.8	3.4	....	1.6	4.59	9.90	12.78
†Red Lake Twp.....	45	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Red Rock.....	32	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Renfrew.....	36	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand														
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	\$	\$	\$	
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
2.5	...	0.8	2.70	3.42	4.14	1.35	2.0	...	1.3	...	0.33	2.70	3.00	3.29
2.0	0.8	0.5	2.25	2.97	3.42	1.00	1.5	...	1.1	...	0.30	2.07	2.34	2.61
3.0	...	1.0	3.15	4.05	4.95	1.35	2.6	...	1.7	...	0.33	3.15	3.45	3.74
2.2	...	0.8	2.43	3.15	3.87	1.20	1.6	...	1.0	...	0.30	2.25	2.52	2.79
2.3	...	0.8	2.52	3.24	3.96	1.00	1.5	...	1.1	...	0.30	2.07	2.34	2.61
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	...	0.5	0.33	1.80	2.25	2.55
1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	0.9	...	0.5	0.33	1.71	2.16	2.46
2.1	...	1.2	2.34	3.42	4.50	1.20	1.4	...	0.9	...	0.30	2.11	2.38	2.65
3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	2.7	...	0.5	0.33	3.33	3.78	4.08
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	...	0.5	0.33	3.96	4.41	4.71
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
1.9	...	0.4	2.16	2.52	2.88	1.00	1.4	...	0.9	...	0.25	1.93	2.16	2.38
3.4	0.8	0.5	3.51	4.23	4.68	1.00	...	2.5	...	0.5	0.33	3.15	3.60	3.90
4.2	0.8	0.5	4.23	4.95	5.40	1.00	...	2.7	...	0.5	0.33	3.33	3.78	4.08
2.5	...	1.1	2.70	3.69	4.68	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	...	0.5	0.33	2.43	2.88	3.18
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	...	0.5	0.33	2.97	3.42	3.72
2.0	...	1.0	2.25	3.15	4.05	1.20	1.7	...	1.2	...	0.30	2.38	2.65	2.92
2.8	...	1.0	2.97	3.87	4.77	1.35	2.5	...	1.6	...	0.33	3.06	3.36	3.65
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81
3.4	0.8	0.5	3.51	4.23	4.68	1.00	...	2.7	...	0.5	0.33	3.33	3.78	4.08
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.3	...	0.5	0.33	2.07	2.52	2.82
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	...	0.5	0.33	2.25	2.70	3.00
3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	...	0.5	0.33	3.51	3.96	4.26
2.7	...	0.8	2.88	3.60	4.32	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
6.0	0.8	0.5	5.85	6.57	7.02	1.00	...	5.0	...	0.8	0.50	5.40	6.12	6.57
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	...	0.5	0.33	3.96	4.41	4.71
1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	0.9	...	0.5	0.33	1.71	2.16	2.46
1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.2	...	0.5	0.33	1.98	2.43	2.73

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Richmond.....	35	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Richmond Hill.....	43	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Ridgetown.....	45	1.67	60	2.9	....	....	1.1	1.96	3.94	5.92
Ripley.....	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Riverside.....	36	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Rockland.....	36	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Rockwood.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Rodney.....	45	1.67	60	2.5	....	....	1.0	1.71	3.51	5.31
Rosseau.....	43	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Russell.....	36	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
St. Catharines.....	42	1.67	60	2.7	....	....	1.5	2.00	4.70	7.40
St. Clair Beach.....	42	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
St. George.....	44	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
St. Jacobs.....	42	1.67	60	3.0	....	....	1.1	2.02	4.00	5.98
St. Mary's.....	43	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
St. Thomas.....	43	1.67	60	3.2	....	....	1.2	2.16	4.32	6.48
Sandwich East Twp.....	41	1.67	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Sandwich West Twp.....	41	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Sarnia.....	40	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Scarborough Twp.....	37	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Schreiber Twp.....	31	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Seaforth.....	36	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Shelburne.....	43	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Simcoe.....	41	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Sioux Lookout.....	53	1.67	60	4.0	....	....	1.5	2.70	5.40	8.10
Smith's Falls.....	38	....	60	2.6	....	....	1.0	1.76	3.56	5.36
Smithville.....	44	1.78	60	3.2	....	....	1.2	2.16	4.32	6.48
Southampton.....	45	1.67	50	3.2	....	....	1.1	1.93	3.91	5.89
†South Porcupine Townsite.....	42	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Springfield.....	41	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Stamford Twp.....	40	1.67	60	3.2	....	....	1.4	2.23	4.75	7.27
Stayner.....	41	1.67	60	3.0	....	....	1.2	2.05	4.21	6.37
Stirling.....	38	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Stoney Creek.....	41	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Stouffville.....	44	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Stratford.....	40	1.67	60	2.9	....	....	1.2	2.00	4.16	6.32
Strathroy.....	37	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Streetsville.....	43	1.67	60	2.9	....	....	1.3	2.03	4.37	6.71
Sturgeon Falls.....	40	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Sudbury.....	37	1.67	60	2.6	....	....	1.2	1.84	4.00	6.16

†Local system

For explanatory notes and water-heating schedules see pages 240 to 243.

# Utilities and Local Systems

## FOR ELECTRICAL SERVICE

### December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand														
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	\$	\$	\$	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.4	...	0.9	2.61	3.42	4.23	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
2.2	...	0.8	2.43	3.15	3.87	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
c2.3	...	1.1	2.52	3.51	4.50	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
2.5	...	1.0	2.70	3.60	4.50	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
2.3	...	0.6	2.52	3.06	3.60	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
¢3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71
¢3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.8	....	0.5	0.33	3.42	3.87	4.17
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
3.5	...	2.0	3.60	5.40	7.20	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.0	...	0.7	2.25	2.88	3.51	1.00	1.5	....	1.1	....	0.25	2.07	2.29	2.52
2.8	...	1.1	2.97	3.96	4.95	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
2.9	...	1.1	3.06	4.05	5.04	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
¢3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.9	...	1.3	3.06	4.23	5.40	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
2.5	...	1.2	2.70	3.78	4.86	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
2.4	...	0.7	2.61	3.24	3.87	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.4	...	1.3	2.61	3.78	4.95	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.4	...	1.2	2.61	3.69	4.77	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Sunderland.....	40	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Sundridge.....	45	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Sutton.....	45	1.78	60	2.7	....	....	1.0	1.82	3.62	5.42
Swansea.....	37	....	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Tara.....	44	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Tavistock.....	39	1.67	60	2.7	....	....	1.4	1.96	4.48	7.00
Tecumseh.....	41	1.67	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Teeswater.....	42	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Terrace Bay Twp.....	32	1.67	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Thamesford.....	45	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Thamesville.....	45	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Thedford.....	45	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Thessalon.....	48	1.67	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Thornbury.....	42	1.67	60	3.5	....	....	1.3	2.36	4.70	7.04
Thorndale.....	42	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Thornloe.....	42	1.67	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Thornton.....	39	1.67	60	3.8	....	....	1.0	2.41	4.21	6.01
Thorold.....	40	1.67	50	3.2	1.6	....	1.3	2.16	4.90	7.24
Tilbury.....	45	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Tillsonburg.....	40	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
†Timmins (including Schumacher).....	42	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Toronto (including Leaside).....	**	2.10	60	2.0	....	....	1.4	1.58	4.10	6.62
Toronto Twp.....	37	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Tottenham.....	43	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
†Trafalgar Twp.....										
Trenton.....	34	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Tweed.....	37	1.67	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Uxbridge.....	39	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Vankleek Hill.....	40	1.67	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Victoria Harbour.....	43	1.67	60	3.2	....	....	1.3	2.20	4.54	6.88
Walkerton.....	38	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Wallaceburg.....	41	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wardsville.....	52	....	60	3.6	....	....	0.9	2.27	3.89	5.51
Warkworth.....	38	1.67	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Wasaga Beach.....	42	....	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Waterdown.....	42	....	60	2.6	....	....	1.2	1.84	4.00	6.16
Waterford.....	42	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Waterloo.....	35	1.67	60	2.6	....	....	1.1	1.80	3.78	5.76
Watford.....	45	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Waubashene.....	42	1.67	60	3.2	....	....	1.2	2.16	4.32	6.48
Webbwood.....	43	....	60	6.0	....	....	2.5	4.14	8.64	13.14

†Local system                      †See Oakville-Trafalgar  
For explanatory notes and water-heating schedules see pages 240 to 243.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
2.4	...	0.7	2.61	3.24	3.87	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.3	...	1.4	2.52	3.78	5.04	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
°2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°1.4	0.8	0.5	1.71	2.43	2.88	1.00	...	0.9	....	0.5	0.33	1.71	2.16	2.46
°2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
4.0	0.8	0.5	4.05	4.77	5.22	1.00	...	3.2	....	0.5	0.33	3.78	4.23	4.53
3.1	...	1.3	3.24	4.41	5.58	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
°3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
3.3	...	1.0	3.42	4.32	5.22	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
°3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
b2.1	...	0.7	2.65	3.28	3.91	1.10	2.1	....	1.4	....	0.38	2.56	2.91	3.25
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
°1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	0.8	....	0.5	0.33	1.62	2.07	2.37
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.7	...	1.3	2.88	4.05	5.22	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
3.2	...	0.8	3.33	4.05	4.77	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
2.2	...	1.2	2.43	3.51	4.59	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.2	...	1.0	2.43	3.33	4.23	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.6	...	1.2	2.79	3.87	4.95	1.35	3.2	....	2.1	....	0.33	3.60	3.90	4.19
5.5	...	2.5	5.40	7.65	9.90	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42

# Municipal Electrical RATES AND TYPICAL BILLS in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Welland.....	41	1.67	60	2.4	....	....	1.1	1.69	3.67	5.65
Wellesley.....	44	1.67	60	3.3	....	....	1.3	2.25	4.59	6.93
Wellington.....	43	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
West Ferris Twp.....	37	1.67	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
West Lorne.....	45	1.67	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Weston.....	37	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Westport.....	38	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wheatley.....	45	1.67	60	3.3	....	....	1.2	2.21	4.37	6.53
Whitby.....	36	1.67	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
†White River.....	60	1.67	50	7.0	3.5	....	1.6	4.72	10.17	13.05
Warton.....	43	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Williamsburg.....	40	....	60	2.0	....	....	0.8	1.37	2.81	4.25
Winchester.....	41	1.67	60	2.5	....	....	1.2	1.78	3.94	6.10
Windermere.....	45	1.67	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Windsor.....	40	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wingham.....	43	1.67	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Woodbridge.....	42	1.67	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Woodstock.....	36	1.67	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Woodville.....	45	1.67	60	3.8	....	....	1.2	2.48	4.64	6.80
Wyoming.....	45	1.67	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
York Twp.....	42	1.67	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Zurich.....	45	....	60	3.7	....	....	1.2	2.43	4.59	6.75

†Local system

## NOTES

### Service Charges

- 33¢ per month per service when the permanently installed appliance load is under 2,000 watts and 66¢ per month when 2,000 watts or more.
- Demand rate 8.5¢ per 100 watts, minimum 50¢.
- Minimum demand charge 25¢.

### ■ House Heating

Applicable where electric energy is used to heat an entire dwelling or a portion of a dwelling in excess of 25% of the floor area.

# Utilities and Local Systems FOR ELECTRICAL SERVICE

## December 31, 1960

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand							First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours			
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours							100 hours	200 hours	300 hours
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.1	...	1.0	2.34	3.24	4.14	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
2.8	...	1.2	2.97	4.05	5.13	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.9	...	1.2	3.06	4.14	5.22	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
°5.8	0.8	0.5	5.67	6.39	6.84	1.00	...	5.1	....	0.5	0.33	5.49	5.94	6.24
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.0	...	0.8	2.25	2.97	3.69	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
2.0	...	1.1	2.25	3.24	4.23	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
°2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
3.2	...	1.2	3.33	4.41	5.49	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
°1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
3.4	...	0.9	3.51	4.32	5.13	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10

### NOTES

#### Special Rates or Discounts

\*First 60 kwh of monthly consumption at 2.0¢, second 60 kwh and all kwh in excess of 1,000 at 1.0¢.

\*\*Flat-rate water-heater service—Toronto:

System-owned—First 400 watts \$2.90 per month.

Each 100 watts additional 40¢ per month, plus a monthly charge for larger tank sizes as follows:

30¢ for 1,000-watt and 1,200-watt heaters.

40¢ for 1,500-watt heaters.

50¢ for 2,000-watt and 2,500-watt heaters.

55¢ for heaters 3,000 watts and over.

Customer-owned—First 400 watts \$1.98 per month.

Each 100 watts additional 40¢ per month.

°Commercial customers with a connected load of under 5 kilowatts billed at residential rates.

§Farm customers billed at standard rural rates.

§§Farm customers billed at special rates.

Municipal Electrical  
GROSS MONTHLY ENERGY RATES  
Subject to 10%

Element rating	SCHEDULE																
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
watts	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
400	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64
450	1.12	1.17	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.53	1.58	1.62	1.67	1.71	1.76	1.80	1.84
500	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05
550	1.38	1.43	1.49	1.54	1.60	1.66	1.70	1.76	1.81	1.87	1.92	1.98	2.03	2.09	2.14	2.20	2.26
600	1.50	1.56	1.62	1.68	1.74	1.80	1.86	1.92	1.98	2.04	2.10	2.16	2.22	2.28	2.34	2.40	2.46
650	1.59	1.66	1.71	1.78	1.84	1.91	1.97	2.03	2.10	2.16	2.22	2.29	2.36	2.41	2.48	2.54	2.61
700	1.68	1.74	1.81	1.88	1.94	2.01	2.08	2.14	2.21	2.28	2.34	2.41	2.48	2.54	2.61	2.68	2.74
750	1.78	1.84	1.91	1.99	2.06	2.12	2.20	2.27	2.34	2.41	2.48	2.56	2.62	2.69	2.77	2.83	2.91
800	1.86	1.93	2.00	2.08	2.16	2.22	2.30	2.38	2.44	2.52	2.60	2.67	2.74	2.82	2.90	2.97	3.04
850	1.94	2.02	2.10	2.18	2.26	2.33	2.41	2.49	2.57	2.64	2.72	2.80	2.88	2.96	3.03	3.11	3.19
900	2.04	2.12	2.20	2.29	2.37	2.44	2.53	2.61	2.69	2.78	2.86	2.93	3.02	3.10	3.18	3.27	3.34
950	2.13	2.22	2.30	2.39	2.48	2.56	2.64	2.73	2.81	2.90	2.99	3.07	3.16	3.24	3.33	3.41	3.50
1,000	2.22	2.31	2.40	2.49	2.58	2.67	2.76	2.84	2.93	3.02	3.11	3.20	3.29	3.38	3.47	3.56	3.64

NOTE: Gross monthly rates for all element sizes over 1,000 watts are calculated as follows:

$$\text{Rate for 1,000-watt element} \times \frac{\text{Element rating}}{1,000}$$



## Utilities and Local Systems

## FOR FLAT-RATE WATER-HEATING

*prompt payment discount*

NUMBER

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40
1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.20	2.26	2.29	2.34	2.38	2.42	2.47	2.52	2.56	2.60	2.66	2.72
2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95	3.00
2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.81	2.86	2.92	2.98	3.03	3.08	3.14	3.20	3.26	3.32
2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.36	3.42	3.48	3.54	3.60
2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.11	3.18	3.25	3.32	3.37	3.42	3.49	3.56	3.62	3.68	3.75	3.82
2.81	2.88	2.94	3.01	3.08	3.14	3.21	3.28	3.34	3.42	3.48	3.55	3.62	3.69	3.76	3.82	3.88	3.95	4.02
2.98	3.04	3.12	3.19	3.26	3.33	3.40	3.48	3.54	3.62	3.68	3.75	3.82	3.90	3.98	4.05	4.12	4.18	4.24
3.12	3.19	3.27	3.34	3.41	3.49	3.57	3.63	3.71	3.79	3.86	3.93	4.00	4.08	4.16	4.24	4.32	4.38	4.44
3.27	3.34	3.42	3.50	3.58	3.66	3.73	3.81	3.90	3.96	4.04	4.12	4.20	4.28	4.36	4.44	4.52	4.59	4.66
3.42	3.51	3.59	3.67	3.76	3.83	3.91	4.00	4.08	4.16	4.24	4.32	4.40	4.49	4.58	4.66	4.74	4.81	4.88
3.59	3.67	3.76	3.84	3.92	4.01	4.10	4.18	4.27	4.35	4.44	4.52	4.60	4.69	4.78	4.87	4.96	5.04	5.12
3.73	3.82	3.91	4.00	4.09	4.18	4.27	4.36	4.44	4.53	4.62	4.71	4.80	4.89	4.98	5.07	5.16	5.25	5.34

**Forty Major Municipal**  
**(Arranged in descending order**  
**CUSTOMERS, REVENUE,**  
**for the Year Ended**

Municipality	Total revenue including street lighting	Total consumption including street lighting	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
			Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh
	\$	kwh	\$	kwh	No.	kwh	¢
Toronto (including Leaside).....	37,251,067	3,137,028,215	11,753,682	937,716,480	175,156	446	1.25
Hamilton.....	15,750,820	1,909,600,091	4,083,296	354,023,802	70,371	419	1.15
◆Ottawa (including Eastview and Rockcliffe Park).....	10,149,428	1,052,467,797	4,404,803	581,874,068	76,590	633	0.76
◆Sarnia.....	6,054,562	907,989,540	745,006	55,923,697	14,443	323	1.33
North York Twp.....	9,445,822	804,121,838	5,215,014	479,034,282	72,372	552	1.09
◆Scarborough Twp.....	7,310,532	620,943,248	4,212,528	359,763,818	56,934	527	1.17
◆Etobicoke Twp. (including Thistletown).....	6,736,647	587,797,049	3,669,098	311,309,537	46,495	558	1.18
◆Windsor.....	4,444,164	372,328,877	1,408,046	125,232,323	34,335	304	1.12
London.....	4,015,853	361,865,107	1,501,625	121,856,121	29,693	342	1.23
◆Oshawa.....	2,855,956	330,122,169	979,496	116,597,560	17,359	560	0.84
◆York Twp.....	3,316,025	327,199,369	2,029,551	212,262,622	38,670	457	0.96
Kitchener.....	3,748,456	320,199,399	1,513,662	132,063,086	21,244	518	1.15
◆Toronto Twp.....	3,024,299	299,053,588	1,155,504	102,675,231	14,384	595	1.13
Brantford.....	2,185,040	204,425,520	898,929	79,600,305	15,140	438	1.13
Kingston.....	2,026,083	199,636,866	851,280	93,027,078	13,208	587	0.92
St. Catharines.....	2,383,924	199,199,488	779,145	58,285,283	12,218	398	1.34
Port Arthur.....	1,777,331	195,925,950	718,651	85,673,732	11,992	595	0.84
Fort William.....	1,697,212	194,401,047	747,584	96,082,799	11,976	669	0.78
Peterborough.....	1,985,551	187,587,929	883,187	84,046,544	13,099	535	1.05
Sudbury.....	2,444,115	184,113,918	1,444,257	124,278,030	20,011	518	1.16
◆East York Twp.....	1,878,757	175,386,737	1,217,245	117,481,857	21,802	449	1.04
◆Guelph.....	1,860,520	168,291,177	797,344	68,484,628	10,946	521	1.16
Oakville- ◆Trafalgar.....	1,813,305	161,258,445	818,540	66,450,004	9,851	562	1.23
◆New Toronto.....	1,259,277	148,420,770	225,068	20,610,208	3,746	458	1.09
◆Burlington.....	1,927,526	137,918,581	1,256,417	92,186,015	12,792	601	1.36
Galt.....	1,267,929	107,946,784	509,841	42,830,590	7,914	451	1.19
Belleville.....	934,494	106,948,677	457,037	56,616,783	8,435	559	0.81
Merritton.....	842,779	105,436,845	109,170	8,777,283	1,787	409	1.24
◆Woodstock.....	977,443	89,273,492	418,067	37,298,668	6,296	494	1.12
Chatham.....	1,459,215	89,159,244	423,517	23,652,169	8,050	245	1.79
◆Niagara Falls.....	1,001,916	84,168,698	380,168	30,130,765	6,889	364	1.26
◆Trenton.....	667,808	83,751,371	210,183	23,551,276	3,744	532	0.89
Barrie.....	851,590	82,891,823	407,723	40,343,663	6,038	557	1.01
Waterloo.....	882,416	77,382,248	395,652	38,890,633	5,885	551	1.02
Stamford Twp.....	1,050,853	75,025,921	587,156	45,934,303	8,253	464	1.28
Stratford.....	905,912	74,793,546	426,606	37,437,191	6,164	506	1.14
St. Thomas.....	857,329	74,026,390	374,790	30,126,086	6,201	405	1.24
North Bay.....	909,260	73,941,296	461,843	39,938,924	6,273	531	1.16
Brockville.....	717,827	73,074,809	287,206	28,252,255	5,124	459	1.02
Orillia.....	739,758	70,993,208	259,412	26,650,044	4,620	481	0.97

For explanation of symbols see page 264.

**Electrical Utilities**  
**of total consumption)**  
**AND CONSUMPTION**  
**December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
9,259,394	629,701,930	26,802	1,958	1.47	15,301,553	1,521,639,865	6,998	411,561	18,120	1.01
2,232,234	180,089,452	8,439	1,778	1.24	9,085,031	1,358,254,659	1,401	265,679	80,791	0.67
4,933,466	415,216,004	10,838	3,193	1.19	473,813	43,063,870	201	15,924	17,854	1.10
360,341	24,218,109	806	2,504	1.49	4,879,498	825,395,334	170	105,769	404,606	0.59
2,412,287	158,004,178	6,144	2,143	1.53	1,608,091	154,744,758	1,211	53,599	10,649	1.04
1,389,214	103,496,378	2,566	3,361	1.34	1,453,237	145,686,252	315	42,104	38,541	1.00
1,003,996	70,056,709	1,876	3,112	1.43	1,825,605	196,591,035	867	54,944	18,896	0.93
855,446	65,276,683	2,047	2,657	1.31	1,879,491	172,216,246	760	65,467	18,883	1.09
1,044,007	78,046,850	2,983	2,180	1.34	1,322,275	155,845,821	431	43,222	30,133	0.85
408,809	34,233,406	1,625	1,756	1.19	1,359,260	174,066,763	271	43,219	53,526	0.78
497,346	40,545,018	1,228	2,751	1.23	649,327	68,827,149	525	23,053	10,925	0.94
698,580	44,720,135	1,714	2,174	1.56	1,419,088	138,210,898	366	39,968	31,469	1.03
374,713	26,261,811	578	3,786	1.43	1,409,499	167,561,038	168	35,622	83,116	0.84
373,591	30,299,734	1,570	1,608	1.23	848,524	91,453,761	299	30,558	25,489	0.93
706,999	61,163,191	2,055	2,480	1.16	402,304	43,315,397	234	13,728	15,426	0.93
474,871	27,655,408	1,633	1,411	1.72	1,058,670	110,172,797	254	30,951	36,146	0.96
413,937	38,358,934	1,622	2,065	1.08	581,859	68,750,884	59	24,243	43,077	0.85
370,160	36,883,798	1,522	2,019	1.00	492,246	58,052,450	221	20,525	21,890	0.85
435,597	27,689,438	1,410	1,636	1.57	594,610	72,717,747	248	20,189	24,435	0.82
696,722	41,162,038	1,962	1,748	1.69	200,014	15,840,914	243	6,329	5,432	1.26
291,546	22,889,541	878	2,329	1.27	297,101	31,812,739	89	9,788	17,913	0.93
317,340	22,250,038	1,009	1,838	1.43	682,845	75,203,631	148	20,342	42,344	0.91
258,532	14,013,271	792	1,474	1.84	706,290	79,726,318	197	17,066	33,725	0.89
134,040	10,443,481	269	3,235	1.28	881,876	116,630,481	37	25,140	262,681	0.76
297,270	17,605,949	613	2,393	1.69	357,986	27,481,337	142	9,499	16,128	1.30
189,897	10,958,086	819	1,115	1.73	511,202	52,098,108	214	17,032	20,287	0.98
248,106	21,348,889	1,116	1,594	1.16	202,733	27,618,035	164	8,252	14,034	0.73
72,680	4,052,393	191	1,768	1.79	651,627	92,303,009	23	16,570	334,431	0.71
138,690	10,068,614	360	2,331	1.38	381,975	39,881,910	142	11,907	23,405	0.96
432,165	20,812,443	1,204	1,441	2.08	524,899	41,930,632	255	14,568	13,703	1.25
336,781	27,702,661	543	4,251	1.22	239,052	24,283,672	48	7,413	42,159	0.98
85,481	7,427,900	249	2,016	1.15	354,242	51,972,275	85	10,918	50,953	0.68
218,108	15,444,631	816	1,577	1.41	211,269	26,349,729	107	8,084	20,522	0.80
183,416	11,680,796	467	2,084	1.57	261,140	24,993,619	93	7,295	22,396	1.04
204,583	9,684,138	576	1,401	2.11	211,978	17,706,440	102	6,813	14,466	1.20
188,040	12,541,650	655	1,596	1.50	246,019	22,760,933	159	8,428	11,929	1.08
180,226	13,146,585	722	1,517	1.37	281,112	29,965,679	110	9,151	22,701	0.94
291,271	21,276,258	1,087	1,631	1.37	128,517	11,496,314	139	3,825	6,892	1.12
126,973	9,858,493	662	1,241	1.29	284,004	34,217,917	93	9,659	30,661	0.83
162,324	12,482,211	660	1,576	1.30	300,976	31,194,513	141	11,804	18,436	0.96

# Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

Municipality	Popu- lation	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Acton .....	4,336	1,306	4,102	87,667	7,303,400	1,209	503	1.20
◆ Ailsa Craig .....	541	222	364	10,280	775,340	201	321	1.33
◆ Ajax .....	7,937	2,166	5,961	134,942	10,519,245	1,990	441	1.28
◆ Alexandria .....	2,451	867	2,025	40,512	3,953,125	786	419	1.02
◆ Alfred .....	915	299	496	14,293	1,009,355	273	308	1.42
Alliston .....	2,904	1,090	2,082	56,204	4,950,103	896	460	1.14
◆ Almonte .....	3,295	1,085	1,932	52,979	5,636,921	1,005	467	0.94
Alvinston .....	651	323	294	7,564	420,260	253	138	1.80
◆ Amherstburg .....	4,344	1,451	3,520	87,928	7,781,641	1,301	498	1.13
Ancaster Twp. (including Ancaster) .....	12,903	1,086	2,446	102,079	7,831,336	1,005	649	1.30
Apple Hill .....	400	117	108	4,326	263,020	99	221	1.64
◆ Arkona .....	480	200	387	12,853	922,618	188	409	1.39
◆ Arnprior .....	5,502	1,751	4,317	91,793	9,324,874	1,622	479	0.98
◆ Arthur .....	1,241	496	812	23,993	1,991,870	443	375	1.20
◆ Athens .....	981	350	491	13,236	1,375,497	333	344	0.96
◆ Atikokan Twp. ....	7,456	1,927	4,061	164,702	13,041,234	1,780	611	1.26
◆ Aurora .....	7,124	2,631	5,745	123,277	11,310,208	2,389	395	1.09
◆ Avonmore .....	250	114	194	7,395	430,980	103	349	1.72
◆ Aylmer .....	4,734	1,561	4,636	73,077	7,761,217	1,420	455	0.94
Ayr .....	1,035	372	772	19,055	1,671,536	307	454	1.14
◆ Baden .....	882	281	891	16,922	1,456,390	266	456	1.16
◆† Bala .....	*495	796	316	29,482	1,147,616	712	134	2.57
Bancroft .....	2,497	791	1,439	49,979	3,427,720	655	436	1.46
Barrie .....	21,271	6,961	18,034	407,723	40,343,663	6,038	557	1.01
◆ Barry's Bay .....	1,468	412	384	13,631	915,050	383	199	1.49
Bath .....	723	246	391	14,978	1,062,283	221	401	1.41
◆ Beachville .....	820	290	2,184	16,496	1,429,900	277	430	1.15
Beamsville .....	2,387	855	1,627	48,667	4,188,072	731	477	1.16
◆† Beardmore .....	1,125	321	478	19,730	1,165,750	247	393	1.69
Beaverton .....	1,159	556	1,182	25,337	1,964,091	464	353	1.29
◆ Beeton .....	783	314	548	16,970	1,217,519	291	349	1.39
◆ Belle River .....	1,847	690	717	28,506	1,512,179	628	201	1.89
Belleville .....	29,070	9,715	24,439	457,037	56,616,783	8,435	559	0.81
◆ Blenheim .....	3,045	1,125	1,680	37,616	2,575,724	1,001	214	1.46
◆† Blind River .....	4,027	1,202	2,096	82,790	5,254,132	1,015	431	1.58
◆ Bloomfield .....	720	313	516	11,837	1,276,123	294	362	0.93
◆ Blyth .....	743	326	645	15,178	1,234,620	290	355	1.23
Bobcaygeon .....	1,197	711	750	28,483	1,761,635	591	248	1.62
◆ Bolton .....	1,921	654	1,286	52,869	3,769,401	617	509	1.40
Bothwell .....	804	319	457	8,998	687,862	246	233	1.31

For explanation of symbols see page 264.



**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
24,374	1,420,581	67	1,767	1.72	97,974	7,757,012	30	2,583	21,547	1.26
3,402	191,170	17	937	1.78	4,042	189,296	4	119	3,944	2.14
32,814	2,181,530	107	1,699	1.50	157,816	13,813,193	69	4,430	16,683	1.14
18,387	1,289,591	63	1,706	1.43	28,075	2,362,265	18	790	10,936	1.19
3,484	186,901	17	916	1.86	7,285	444,868	9	251	4,119	1.64
27,099	1,565,223	163	800	1.73	22,983	2,140,278	31	713	5,753	1.07
11,957	901,794	54	1,392	1.33	30,734	3,383,708	26	1,100	10,845	0.91
6,692	318,770	62	428	2.10	2,151	94,105	8	67	980	2.29
35,644	2,273,305	117	1,619	1.57	63,712	5,748,590	33	1,725	14,517	1.11
18,598	762,736	71	895	2.44	5,951	394,483	10	160	3,287	1.51
1,262	57,180	18	265	2.21						
2,222	141,791	10	1,182	1.57	2,914	139,520	2	76	5,813	2.09
33,466	2,489,226	97	2,139	1.34	60,061	5,595,813	32	1,992	14,572	1.07
7,556	400,934	38	879	1.88	5,919	351,690	15	225	1,954	1.68
2,733	201,110	15	1,117	1.36	869	55,200	2	45	2,300	1.57
54,401	3,498,394	115	2,535	1.56	44,783	5,021,061	32	1,089	13,076	0.89
51,488	3,482,219	197	1,473	1.48	89,567	7,792,330	45	2,575	14,430	1.15
1,983	100,230	10	835	1.98	256	5,100	1	15	425	5.01
36,926	2,776,070	108	2,142	1.33	69,047	6,184,441	33	2,401	15,617	1.12
9,169	548,740	52	879	1.67	8,724	340,066	13	329	2,180	2.57
2,575	180,113	10	1,501	1.43	17,593	1,229,730	5	579	20,496	1.43
12,703	528,637	78	565	2.40	1,019	64,382	6	41	894	1.58
29,060	1,365,223	122	933	2.13	10,826	752,491	14	397	4,479	1.44
218,108	15,444,631	816	1,577	1.41	211,269	26,349,729	107	8,084	20,522	0.80
5,857	383,540	26	1,229	1.53	970	76,670	3	26	2,130	1.27
3,438	142,930	23	518	2.41	839	67,940	2	19	2,831	1.23
2,146	117,553	11	891	1.83	93,181	12,655,660	2	2,062	527,319	0.74
19,178	1,094,106	111	821	1.75	10,908	623,860	13	372	3,999	1.75
14,435	770,367	72	892	1.87	192	2,680	2	10	112	7.18
14,163	890,310	80	927	1.59	25,252	1,944,492	12	830	13,503	1.30
2,997	141,090	15	784	2.12	5,968	329,990	8	146	3,437	1.81
15,402	792,881	57	1,159	1.94	3,532	221,459	5	101	3,691	1.60
248,106	21,348,889	1,116	1,594	1.16	202,733	27,618,035	164	8,252	14,034	0.73
29,546	1,717,906	98	1,461	1.72	22,837	1,290,420	26	774	4,136	1.77
42,330	2,258,203	178	1,078	1.87	17,208	1,318,833	9	444	8,792	1.30
2,847	185,013	14	1,101	1.54	1,267	45,393	5	84	757	2.79
5,344	310,713	29	893	1.72	13,172	1,103,765	7	325	13,140	1.19
14,693	694,692	111	522	2.12	7,294	324,574	9	257	3,005	2.25
8,241	418,200	24	1,452	1.97	5,701	318,555	13	196	2,042	1.79
7,671	531,242	63	703	1.44	4,796	117,425	10	194	979	4.08

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Bowmanville .....	7,308	2,446	6,164	127,645	13,476,274	2,270	495	0.95
Bracebridge .....	2,906	1,133	89	63,510	4,967,684	909	455	1.28
◆ Bradford .....	2,395	836	1,877	47,454	4,182,904	734	475	1.13
◆ Braeside .....	563	161	1,770	7,777	497,737	154	275	1.56
◆ Brampton .....	17,385	5,392	14,307	344,766	28,711,399	4,998	479	1.20
Brantford .....	53,616	17,009	46,020	898,929	79,600,305	15,140	438	1.13
◆ Brantford Twp. ....	7,473	2,195	5,634	238,416	15,145,763	2,037	620	1.57
◆ Brechin .....	259	99	152	3,950	343,755	85	337	1.15
◆ Bridgeport .....	1,674	460	932	31,998	2,677,325	431	518	1.20
◆ Brigden .....	491	215	248	5,663	391,950	183	178	1.44
◆ Brighton .....	2,345	981	1,646	46,933	4,368,224	900	404	1.07
Brockville .....	17,124	5,879	16,389	287,206	28,252,255	5,124	459	1.02
Brussels .....	830	385	693	17,725	1,516,539	294	430	1.17
◆ Burford .....	1,029	427	866	30,736	2,263,191	384	491	1.36
Burgessville .....	245	100	221	5,549	447,948	78	479	1.24
◆ Burk's Falls .....	884	341	707	17,875	1,263,363	310	340	1.41
◆ Burlington .....	44,709	13,547	34,967	1,256,417	92,186,015	12,792	601	1.36
◆ Cache Bay .....	896	201	320	8,212	426,351	194	183	1.93
Caledonia .....	2,265	788	1,151	29,193	2,196,036	649	282	1.33
◆ Campbellford .....	3,373	1,346	1,110	59,730	6,731,536	1,188	472	0.89
Campbellville .....	364	90	171	6,795	500,764	81	515	1.36
Cannington .....	1,059	450	672	22,055	1,853,940	371	416	1.19
Capreol .....	2,730	953	1,951	72,935	5,022,707	854	490	1.45
◆ Cardinal .....	1,972	663	1,033	35,498	3,251,724	629	431	1.09
◆ Carleton Place .....	4,688	1,712	3,174	96,925	7,568,871	1,577	400	1.28
◆ Casselman .....	1,301	379	711	20,823	1,443,275	359	335	1.44
◆ Cayuga .....	920	371	480	13,236	974,549	324	251	1.36
◆ Chalk River .....	1,052	290	544	15,569	1,399,294	270	432	1.11
Chapleau Twp. ....	3,696	959	467	85,389	1,612,561	837	161	5.30
Chatham .....	29,271	9,509	20,304	423,517	23,652,169	8,050	245	1.79
◆ Chatsworth .....	399	165	305	8,072	670,670	143	391	1.20
Chesley .....	1,635	717	1,190	31,111	2,746,780	590	388	1.13
Chesterville .....	1,248	457	1,300	20,040	1,671,046	365	382	1.20
Chippawa .....	3,027	1,035	1,427	55,887	3,944,488	942	349	1.42
◆ Clifford .....	557	227	402	11,704	932,951	205	379	1.25
◆ Clinton .....	3,107	1,232	2,412	72,251	5,859,962	1,101	444	1.23
◆ † Cobalt .....	2,090	771	1,075	43,408	2,790,244	648	359	1.56
◆ Cobden .....	915	403	720	12,920	1,768,748	371	397	0.73
◆ Cobourg .....	9,445	3,387	9,476	205,636	18,564,419	3,077	503	1.11
Cochrane .....	4,368	1,299	2,824	90,784	6,952,187	1,074	539	1.31

For explanation of symbols see page 264.

# Utilities and Local Systems AND CONSUMPTION December 31, 1960

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer per kwh	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer per kwh	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
45,766	3,917,448	138	2,366	1.17	78,626	8,879,448	38	2,691	19,472	0.89
46,756	3,184,707	204	1,301	1.47	11,638	628,858	20	465	2,620	1.85
22,681	1,430,082	73	1,633	1.59	24,852	2,123,545	29	682	6,102	1.17
1,198	56,718	5	591	2.11	57,528	5,183,634	2	1,640	215,985	1.11
122,396	7,513,555	304	2,060	1.63	154,690	12,604,706	90	4,580	11,671	1.23
373,591	30,299,734	1,570	1,608	1.23	848,524	91,453,761	299	30,558	25,489	0.93
43,876	2,425,709	114	1,773	1.81	98,611	6,426,672	44	3,106	12,172	1.53
2,665	164,956	13	1,057	1.62	566	22,896	1	26	1,908	2.47
8,411	573,962	20	2,392	1.47	3,599	195,630	9	144	1,811	1.84
4,736	281,000	24	976	1.69	3,597	135,045	8	150	1,407	2.66
16,611	1,087,556	70	1,295	1.53	7,087	538,952	11	286	4,083	1.31
126,973	9,858,493	662	1,241	1.29	284,004	34,217,917	93	9,659	30,661	0.83
9,759	545,400	82	554	1.79	7,455	371,830	9	185	3,443	2.00
9,367	474,289	37	1,068	1.97	5,107	273,660	6	158	3,801	1.87
2,115	98,503	19	432	2.15	2,759	55,210	3	97	1,534	5.00
8,009	474,180	27	1,464	1.69	5,979	409,780	4	155	8,537	1.46
297,270	17,605,949	613	2,393	1.69	357,986	27,481,337	142	9,499	16,128	1.30
501	21,580	4	450	2.32	18,291	900,264	3	403	25,007	2.03
19,812	1,271,113	115	921	1.56	11,092	784,282	24	322	2,723	1.41
25,017	2,247,014	129	1,452	1.11	11,755	1,233,699	29	496	3,545	0.95
1,142	74,280	8	774	1.54	632	63,400	1	10	5,283	1.00
8,322	426,867	67	531	1.95	5,594	303,013	12	166	2,104	1.85
15,963	983,122	96	853	1.62	12,160	992,241	3	281	27,562	1.23
6,313	413,160	29	1,187	1.53	1,262	108,440	5	37	1,807	1.16
26,129	1,437,271	107	1,119	1.82	43,019	4,072,039	28	1,269	12,119	1.06
4,369	224,036	14	1,334	1.95	11,641	694,155	6	335	9,641	1.68
8,020	481,862	38	1,057	1.66	4,470	137,360	9	198	1,272	3.25
4,066	330,818	18	1,532	1.23	2,853	262,630	2	95	10,943	1.09
37,294	608,311	104	487	6.13	13,650	395,374	18	171	1,830	3.45
432,165	20,812,443	1,204	1,441	2.08	524,899	41,930,632	255	14,568	13,703	1.25
4,046	237,230	21	941	1.71	848	34,125	1	26	2,844	2.48
14,544	794,700	102	649	1.83	11,086	675,099	25	419	2,250	1.64
10,538	607,619	81	625	1.73	34,241	3,367,647	11	919	25,512	1.02
16,738	835,533	82	849	2.00	3,990	405,950	11	125	3,075	0.98
3,275	200,171	15	1,112	1.64	4,219	341,850	7	104	4,070	1.23
29,342	1,761,696	102	1,439	1.67	21,888	1,577,315	29	649	4,533	1.39
21,854	999,978	118	721	2.19	9,034	803,923	5	210	8,932	1.12
3,667	297,480	24	1,033	1.23	3,301	210,003	8	193	2,188	1.57
75,342	5,089,017	241	1,760	1.48	174,402	18,071,824	69	5,135	21,826	0.97
55,479	2,956,477	198	1,244	1.88	20,201	1,773,629	27	535	5,474	1.14

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Colborne.....	1,337	572	963	28,706	2,392,742	472	422	1.20
◆ Coldwater.....	752	270	571	13,869	1,227,359	250	432	1.13
◆ Collingwood.....	8,505	3,115	6,520	143,060	12,573,122	2,878	382	1.14
◆ Comber.....	580	234	274	7,865	488,380	201	202	1.61
◆ Coniston.....	2,569	668	1,190	49,135	3,721,920	651	476	1.32
◆ Cookstown.....	650	250	383	11,947	959,096	229	365	1.25
◆ Cottam.....	649	244	282	8,925	655,440	221	247	1.36
◆ Courtright.....	548	191	188	5,712	447,224	178	209	1.28
Creemore.....	882	363	555	16,553	1,446,040	301	400	1.14
◆ Dashwood.....	433	183	288	11,495	732,941	173	353	1.57
◆ Deep River.....	5,130	1,383	3,996	129,230	10,600,245	1,290	685	1.22
Delaware.....	452	136	255	10,665	742,008	118	524	1.44
◆ Delhi.....	3,434	1,364	3,018	57,586	5,064,061	1,190	355	1.14
◆ Deseronto.....	1,770	638	911	28,806	2,597,590	594	364	1.11
◆ Dorchester.....	937	327	508	14,962	1,172,165	310	315	1.28
◆ Drayton.....	620	263	424	14,253	946,230	238	331	1.51
◆ Dresden.....	2,311	895	1,524	30,907	1,942,696	807	201	1.59
◆ Drumbo.....	399	174	252	9,464	795,570	160	414	1.19
◆ Dryden.....	5,740	1,691	3,127	127,171	10,249,714	1,548	552	1.24
◆ Dublin.....	271	111	266	5,415	469,387	96	407	1.15
◆ Dundalk.....	875	426	696	17,813	1,323,310	376	293	1.35
Dundas.....	12,790	4,010	9,161	224,536	19,102,174	3,532	451	1.18
Dunnville.....	5,261	1,913	3,491	65,460	3,997,999	1,589	210	1.64
Durham.....	2,084	822	1,489	38,897	3,211,930	675	397	1.21
◆ Dutton.....	777	343	470	11,775	837,828	314	222	1.41
◆ East York Twp.....	68,209	22,769	40,491	1,217,245	117,481,857	21,802	449	1.04
Eganville.....	1,454	567	626	27,146	1,726,509	464	310	1.57
◆ † Elk Lake Townsite.....	\$600	208	480	10,060	682,616	154	369	1.47
◆ Elmira.....	3,222	1,143	3,980	71,882	6,082,704	1,043	486	1.18
◆ Elmvale.....	942	406	652	20,326	1,804,217	365	412	1.13
◆ Elmwood.....	\$450	138	259	4,695	374,570	127	246	1.25
Elora.....	1,509	530	881	33,675	2,238,759	452	413	1.50
Embro.....	547	232	432	13,283	1,089,186	186	488	1.22
◆ † Englehart.....	1,689	611	1,053	38,961	2,416,528	510	395	1.61
◆ Erieau.....	477	350	327	12,209	929,497	292	265	1.31
◆ Erie Beach.....	*130	139	59	4,391	146,840	133	92	2.99
◆ Erin.....	1,010	405	683	22,141	1,741,958	368	394	1.27
◆ † Espanola.....	5,068	1,289	2,684	31,907	2,121,852	1,204	587	1.50
◆ Essex.....	3,416	1,205	1,714	48,010	3,361,680	1,072	261	1.43
◆ Etobicoke Twp. (including Thistletown).....	144,777	49,238	127,505	3,669,098	311,309,537	46,495	558	1.18

† Three months' operation.  
For explanation of symbols see page 264.



**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
14,330	679,858	91	623	2.11	4,994	346,042	9	134	3,204	1.44
4,559	265,533	16	763	1.72	10,342	837,444	4	302	17,447	1.23
73,886	4,873,660	173	1,310	1.52	90,945	8,517,771	64	3,645	11,091	1.07
5,022	259,950	25	867	1.93	6,312	245,720	8	231	2,560	2.57
5,929	299,835	15	1,666	1.98	788	64,060	2	19	2,669	1.23
2,941	109,534	17	338	2.68	2,483	156,100	4	89	3,252	1.59
2,885	141,485	16	737	2.04	3,706	90,754	7	191	1,080	4.08
1,402	98,099	11	743	1.43	684	75,202	2	18	3,133	0.91
5,898	311,320	56	463	1.89	2,452	111,650	6	110	1,551	2.20
1,294	63,270	6	879	2.05	3,441	120,530	4	124	2,511	2.86
52,898	3,460,696	85	3,393	1.53	7,725	739,902	8	183	7,707	1.04
3,414	140,322	18	650	2.43						
41,610	2,586,427	132	1,633	1.61	37,601	2,306,429	42	1,354	4,576	1.63
5,956	398,007	27	1,228	1.50	14,913	1,021,290	17	592	5,006	1.46
2,047	107,964	14	643	1.90	2,289	109,857	3	81	3,052	2.08
3,309	156,725	21	622	2.11	3,625	129,202	4	126	2,692	2.81
23,534	1,511,397	63	1,999	1.56	41,378	2,283,445	25	1,235	7,611	1.81
1,284	65,770	11	498	1.95	1,558	42,034	3	69	1,168	3.71
59,380	3,546,935	122	2,423	1.67	7,126	404,340	21	233	1,605	1.76
2,669	173,900	13	1,115	1.53	3,108	121,600	2	77	5,067	2.56
8,098	384,533	38	843	2.11	5,407	256,453	12	218	1,781	2.11
118,975	7,374,358	395	1,556	1.61	96,702	8,670,830	83	3,393	8,706	1.12
64,819	3,441,548	286	1,003	1.88	89,604	7,059,710	38	2,388	15,482	1.27
19,050	1,003,038	122	685	1.90	30,102	1,598,445	25	955	5,328	1.88
3,480	191,690	16	998	1.82	6,583	429,870	13	236	2,756	1.53
291,546	22,889,541	878	2,329	1.27	297,101	31,812,739	89	9,788	17,913	0.93
20,842	904,501	91	828	2.30	6,985	452,545	12	186	3,143	1.54
6,298	413,641	52	683	1.52	7,957	209,689	2	230	4,993	3.79
28,078	1,682,061	69	2,031	1.67	86,814	7,998,594	31	2,332	21,502	1.09
6,870	440,429	33	1,112	1.56	1,959	176,983	8	54	1,844	1.11
1,153	76,890	9	712	1.50	1,404	48,440	2	60	2,018	2.90
11,013	477,709	72	553	2.31	6,943	445,960	6	196	6,194	1.56
3,591	247,659	42	491	1.45	4,412	181,343	4	109	3,778	2.43
17,346	720,378	97	629	2.41	6,711	525,284	4	140	7,959	1.28
6,606	425,650	52	682	1.55	7,921	344,360	6	266	4,783	2.30
363	12,350	6	172	2.94						
6,529	380,102	32	990	1.72	2,152	123,910	5	72	2,065	1.74
10,506	608,960	83	2,417	1.73	93	2,080	2	22	347	4.46
33,222	2,125,961	103	1,720	1.56	18,314	925,091	30	714	2,570	1.98
1,003,966	70,056,709	1,876	3,112	1.43	1,825,605	196,591,035	867	54,944	18,896	0.93

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Exeter.....	2,977	1,208	2,408	73,475	5,544,794	997	463	1.33
Fergus.....	3,894	1,336	3,677	91,922	6,773,080	1,163	485	1.36
◆ Finch.....	403	176	286	7,409	691,932	162	356	1.07
◆ Flesherton.....	495	251	460	8,588	920,144	224	342	0.93
Fonthill.....	2,321	777	1,434	49,141	3,878,758	697	464	1.27
◆ Forest.....	2,065	892	1,474	46,835	4,297,671	824	435	1.09
◆ Forest Hill.....	20,225	7,678	15,528	536,938	52,599,080	7,256	604	1.02
Fort William.....	43,968	13,719	36,850	747,584	96,082,799	11,976	669	0.78
◆ Frankford.....	1,576	574	811	28,249	2,520,942	542	388	1.12
Galt.....	26,945	8,947	25,020	509,841	42,830,590	7,914	451	1.19
◆ Georgetown.....	10,015	3,244	8,523	205,639	17,231,205	3,025	475	1.19
◆† Geraldton.....	3,479	1,069	1,459	67,604	4,077,817	880	386	1.66
◆ Glencoe.....	1,144	492	649	13,769	1,113,841	427	217	1.24
◆ Goderich.....	6,232	2,345	6,073	136,459	11,125,061	2,149	431	1.23
◆† Gogama.....	\$500	133	240	10,368	340,445	112	253	3.05
Grand Bend.....	*906	828	680	38,007	1,874,790	709	220	2.03
Grand Valley.....	641	316	498	14,001	1,023,080	251	340	1.37
Granton.....	303	119	121	6,270	376,610	98	320	1.66
◆ Gravenhurst.....	3,133	1,331	2,533	54,577	5,993,490	1,197	417	0.91
Grimsby.....	4,804	1,737	2,986	73,889	6,444,584	1,467	366	1.15
◆ Guelph.....	38,323	12,103	35,648	797,344	68,484,628	10,946	521	1.16
Hagersville.....	2,087	771	1,678	27,572	2,088,951	594	293	1.32
◆† Haileybury.....	2,607	886	1,701	59,258	4,219,045	715	492	1.40
Hamilton.....	261,114	80,211	327,459	4,083,296	354,023,802	70,371	419	1.15
Hanover.....	4,348	1,602	4,062	78,815	7,490,855	1,368	456	1.05
◆ Harriston.....	1,628	659	1,274	34,900	2,825,640	597	394	1.24
◆ Harrow.....	1,842	674	1,375	42,041	3,515,081	585	501	1.20
◆ Hastings.....	899	452	470	15,439	1,364,605	428	266	1.13
◆ Havelock.....	1,271	458	627	21,783	1,639,803	428	319	1.33
◆ Hawkesbury.....	8,730	2,185	3,386	127,561	9,091,391	2,056	368	1.40
◆ Hearst.....	2,102	719	1,274	52,797	2,791,262	638	365	1.89
Hensall.....	903	366	763	18,632	1,609,312	285	471	1.16
◆† Hepworth.....	388	127	160	6,576	406,358	112	302	1.62
Hespeler.....	4,461	1,423	5,495	73,348	5,716,185	1,261	378	1.28
Highgate.....	382	165	218	4,078	285,826	125	191	1.43
Holstein.....	177	96	127	3,516	282,760	77	306	1.24
† Hornepayne.....	\$1,400	479	656	42,902	1,620,236	427	316	2.65
◆† Hudson Townsite.....	\$600	223	495	9,179	434,961	185	196	2.11
Huntsville.....	3,200	1,215	2,478	63,648	5,611,180	975	480	1.13
Ingersoll.....	7,174	2,353	5,669	117,391	7,884,759	2,038	322	1.49

For explanation of symbols see page 264.

**Utilities and Local Systems**  
**AND CONSUMPTION**  
**December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer per kwh	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer per kwh	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
31,536	1,763,737	178	826	1.79	23,311	1,224,520	33	788	3,092	1.90
32,317	1,612,016	143	939	2.00	65,972	4,991,870	30	1,909	13,866	1.32
1,386	73,212	9	678	1.89	2,770	123,460	5	124	2,058	2.24
4,521	324,216	25	1,081	1.39	1,585	107,380	2	68	4,474	1.48
12,824	736,238	69	889	1.74	4,061	192,330	11	121	1,457	2.11
15,914	1,008,744	45	1,868	1.58	11,636	992,542	23	399	3,596	1.17
151,304	12,011,830	393	2,547	1.26	10,239	1,116,900	29	350	3,209	0.92
370,160	36,883,798	1,522	2,019	1.00	492,246	58,052,450	221	20,525	21,890	0.85
4,344	283,652	27	875	1.53	1,873	141,764	5	86	2,363	1.32
189,897	10,958,086	819	1,115	1.73	511,202	52,098,108	214	17,032	20,287	0.98
60,680	3,870,573	178	1,812	1.57	127,390	13,715,549	41	3,469	27,877	0.93
38,667	1,951,818	173	940	1.98	1,961	61,849	16	72	322	3.17
13,561	869,695	48	1,510	1.56	8,162	312,393	17	364	1,531	2.61
45,414	2,431,167	141	1,437	1.87	150,462	11,211,832	55	4,040	16,988	1.34
4,293	182,444	19	800	2.35	4,301	226,810	2	57	9,450	1.90
25,860	1,123,100	119	786	2.30	4,224	210,720	8	146	2,195	2.00
6,406	296,880	57	434	2.16	177	1,700	1	8	142	10.40
1,433	51,340	20	214	2.79	27,596	2,657,975	29	1,117	7,638	1.04
26,926	2,369,913	105	1,881	1.14	28,893	2,405,216	35	946	5,727	1.20
47,981	3,112,339	235	1,104	1.54	682,845	75,203,631	148	20,342	42,344	0.91
317,340	22,250,038	1,009	1,838	1.43	38,970	2,575,493	26	1,426	8,255	1.51
27,341	1,616,753	151	892	1.69	8,483	624,548	9	252	3,470	1.36
34,385	1,676,950	162	896	2.05	9,085,031	1,358,254,659	1,401	265,679	80,791	0.67
2,232,234	180,089,452	8,439	1,778	1.24	58,208	5,218,923	39	2,178	11,152	1.12
29,206	1,919,725	195	820	1.52	22,413	1,969,131	13	621	12,623	1.14
11,587	669,870	49	1,139	1.73	16,459	734,550	12	567	5,101	2.24
21,840	1,298,063	77	1,405	1.68	2,592	194,084	5	110	3,235	1.34
2,604	197,940	19	868	1.32	1,732	140,500	3	62	3,903	1.23
7,018	462,371	27	1,427	1.52	13,463	922,315	25	545	3,074	1.46
60,684	3,413,690	104	2,735	1.78	3,881	225,885	11	78	1,711	1.72
26,938	1,307,869	70	1,557	2.06	14,752	771,650	21	486	3,062	1.91
9,570	537,309	60	746	1.78	146,051	17,084,750	34	4,352	41,874	0.85
2,595	126,883	15	705	2.05	4,440	158,090	4	136	3,294	2.81
23,413	1,297,378	128	845	1.80	909	67,800	2	18	2,825	1.34
3,138	151,210	36	350	2.08	8,177	708,000	1	110	59,000	1.15
993	47,630	17	233	2.08	9,811	308,151	4	225	6,420	3.18
22,510	623,017	51	1,018	3.61	27,126	2,606,019	34	926	6,387	1.04
5,172	266,724	34	654	1.94	131,229	12,099,532	46	4,027	21,919	1.08
53,429	3,371,194	206	1,364	1.58						
58,175	3,341,386	269	1,035	1.74						

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Iroquois.....	1,014	395	879	25,722	2,045,073	327	521	1.26
◆Jarvis.....	755	285	444	10,027	684,764	260	232	1.46
◆†Jellicoe Townsite.....	\$140	52	66	2,441	122,777	42	244	1.99
◆Kapuskasing.....	6,444	2,015	4,101	119,065	10,250,980	1,810	472	1.16
◆†Kearns Townsite.....	\$500	194	346	12,347	911,395	181	420	1.35
◆Kemptville.....	1,914	764	1,727	36,718	3,485,870	693	419	1.05
◆Kincardine.....	2,691	1,205	2,126	52,118	5,015,143	1,088	384	1.04
◆†King Kirkland Townsite... Kingston.....	\$500 48,028	183 15,497	280 42,523	11,582 851,280	838,659 93,027,078	161 13,208	434 587	1.38 0.92
◆Kingsville.....	3,089	1,249	2,334	45,098	4,117,221	1,098	312	1.10
◆Kirkfield.....	134	102	92	4,616	296,030	95	260	1.56
◆†Kirkland Lake (including Swastika).....	\$18,495	5,956	10,284	351,398	24,260,902	5,018	403	1.45
Kitchener.....	72,961	23,324	68,996	1,513,662	132,063,086	21,244	518	1.15
Lakefield.....	2,073	729	1,438	35,289	3,490,582	610	477	1.01
Lambeth.....	1,926	604	1,121	43,159	3,099,410	555	465	1.39
◆Lanark.....	875	281	335	9,527	907,417	265	285	1.05
◆Lancaster.....	612	208	337	8,548	776,137	191	339	1.10
Larder Lake Twp.....	1,990	561	999	37,763	2,952,240	511	481	1.28
◆Latchford.....	437	155	139	4,823	294,790	142	173	1.64
◆Leamington.....	8,602	3,280	6,149	138,494	10,656,075	2,982	298	1.30
◆Lindsay.....	11,052	3,754	8,926	198,169	18,152,730	3,466	436	1.09
◆Listowel.....	3,665	1,528	3,363	79,889	6,974,852	1,385	420	1.15
London.....	119,616	33,107	71,320	1,501,625	121,856,121	29,693	342	1.23
◆London Twp.....	43,953	997	2,139	72,657	5,564,924	971	478	1.31
◆Long Branch.....	10,783	4,243	7,690	226,542	19,678,224	4,056	404	1.15
◆L'Orignal.....	1,145	358	427	17,770	1,065,520	338	263	1.67
◆Lucan.....	945	355	670	22,718	1,736,054	330	438	1.31
Lucknow.....	1,009	471	730	16,899	1,477,550	360	342	1.14
◆Lynden.....	530	167	342	10,733	916,335	160	477	1.17
◆Madoc.....	1,488	596	974	24,424	2,408,071	522	384	1.01
◆Magnetawan.....	256	107	96	5,481	262,690	104	210	2.09
Markdale.....	1,113	440	792	18,001	1,634,216	348	391	1.10
◆Markham.....	4,319	1,334	3,262	102,016	8,261,538	1,227	561	1.23
Marmora.....	1,358	522	918	25,009	1,954,356	439	371	1.28
◆Martintown.....	430	125	177	4,995	377,310	110	286	1.32
◆Massey.....	1,325	356	546	30,102	1,613,052	316	425	1.87
◆†Matachewan Twp.....	912	296	272	12,850	852,141	254	280	1.51
◆†Matheson.....	910	307	612	19,860	1,560,194	237	549	1.27
◆†Mattawa.....	3,151	811	1,385	54,281	2,747,028	684	335	1.98
◆Maxville.....	813	313	478	12,899	1,091,569	281	324	1.18

For explanation of symbols see page 264.



**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
14,733	850,200	61	1,161	1.73	4,971	365,170	7	153	4,347	1.36
5,088	287,326	17	772	1.77	6,089	405,500	8	180	4,224	1.50
1,866	115,206	9	1,067	1.62	479	15,800	1	14	1,317	3.03
67,926	4,175,659	173	2,011	1.63	8,287	458,054	32	336	1,193	1.81
2,684	140,938	12	979	1.90	608	29,070	1	15	2,423	2.09
18,051	1,274,605	60	1,770	1.42	23,202	1,704,821	11	778	12,915	1.36
22,590	1,399,649	94	1,241	1.61	41,060	3,204,602	23	1,197	11,611	1.28
3,826	218,125	22	826	1.75						
706,999	61,163,191	2,055	2,480	1.16	402,304	43,315,397	234	13,728	15,426	0.93
27,462	1,744,252	118	1,232	1.57	23,834	1,463,095	33	1,067	3,695	1.63
752	27,131	7	323	2.77						
172,248	11,615,670	907	1,118	1.48	56,887	4,361,288	31	1,738	5,013	1.30
698,580	44,720,135	1,714	2,174	1.56	1,419,088	138,210,898	366	39,968	31,469	1.03
19,488	1,243,418	103	1,006	1.57	7,153	407,351	16	317	2,122	1.76
6,944	290,753	48	505	2.39	1,469	70,895	1	30	5,908	2.07
2,066	148,498	14	884	1.39	2,619	201,980	2	94	8,416	1.30
4,240	321,993	17	1,578	1.32						
10,945	606,930	47	1,076	1.80	1,646	178,967	3	30	4,971	0.92
2,093	143,663	10	1,197	1.46	3,021	200,490	3	92	5,569	1.51
74,202	4,745,640	216	1,831	1.56	134,259	12,410,405	82	3,621	12,612	1.08
79,434	5,264,503	199	2,205	1.51	168,107	17,870,328	89	5,241	16,733	0.94
35,629	2,259,680	109	1,728	1.58	40,454	2,859,676	34	1,286	7,009	1.41
1,044,007	78,046,850	2,983	2,180	1.34	1,322,275	155,845,821	431	43,222	30,133	0.85
7,629	487,847	19	2,140	1.56	11,607	1,171,589	7	291	13,947	0.99
58,508	4,033,925	142	2,367	1.45	83,865	7,532,446	45	2,718	13,949	1.11
5,155	332,089	17	1,628	1.55	1,205	36,235	3	60	1,007	3.33
5,539	317,783	19	1,394	1.74	2,972	178,155	6	97	2,474	1.67
10,112	603,430	99	508	1.68	12,767	660,950	12	344	4,590	1.93
2,285	135,000	5	2,250	1.69	1,939	55,575	2	92	2,316	3.49
14,007	997,293	62	1,340	1.40	4,597	230,751	12	183	1,602	1.99
939	35,250	3	979	2.66						
13,204	821,640	85	806	1.61	2,482	149,455	7	88	1,779	1.66
43,412	2,827,079	89	2,647	1.54	18,047	914,373	18	635	4,233	1.97
16,235	856,473	78	915	1.90	2,720	190,360	5	75	3,173	1.43
2,094	122,895	14	732	1.70	522	15,150	1	33	1,263	3.45
9,338	490,300	40	1,078	1.90	830	45,848		18		1.81
5,309	281,576	42	559	1.89						
9,001	525,511	67	654	1.71	2,347	147,051	3	55	4,085	1.60
33,792	1,440,560	124	984	2.35	20,031	947,570	3	411	15,793	2.11
5,904	334,180	28	995	1.77	3,530	127,400	4	131	2,654	2.77

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
McGarry.....	2,944	480	1,039	37,425	3,047,231	429	592	1.23
Meaford.....	3,672	1,510	2,970	68,364	6,147,493	1,276	401	1.11
Merlin.....	612	255	334	7,332	534,924	186	240	1.37
◆Merrickville.....	891	355	482	15,957	1,274,371	328	324	1.25
Merritton.....	6,497	2,001	18,883	109,170	8,777,283	1,787	409	1.24
◆Midland.....	8,615	2,851	8,496	128,905	15,432,605	2,644	486	0.84
Mildmay.....	836	305	681	13,829	1,287,205	236	455	1.07
◆Millbrook.....	842	338	508	18,662	1,498,478	321	389	1.25
◆Milton.....	5,394	1,720	4,441	118,310	9,719,157	1,567	517	1.22
◆Milverton.....	1,075	473	883	26,444	1,755,245	409	358	1.51
◆Mimico.....	16,380	6,641	9,873	293,942	30,259,929	6,347	397	0.97
◆Mitchell.....	2,161	912	2,175	51,786	3,929,165	821	399	1.32
◆Moorefield.....	303	124	256	5,273	458,551	109	351	1.15
◆Morrisburg.....	1,912	744	1,478	37,163	3,795,866	657	481	0.98
◆Mount Brydges.....	957	355	374	15,256	891,852	331	225	1.71
◆Mount Forest.....	2,571	1,018	2,161	52,052	4,650,480	914	424	1.12
◆Napane.....	4,505	1,686	3,509	87,593	8,428,890	1,505	467	1.04
◆Neustadt.....	505	205	291	6,613	680,310	187	303	0.97
◆Newboro.....	291	145	108	5,084	287,053	134	179	1.77
Newburgh.....	573	192	253	10,596	687,589	163	352	1.54
Newbury.....	343	130	124	4,905	313,035	106	246	1.57
Newcastle.....	1,198	469	923	20,358	1,855,320	389	397	1.10
◆New Hamburg.....	2,100	711	1,384	41,348	3,536,215	644	458	1.17
◆†New Liskeard.....	4,700	1,615	3,375	118,927	8,348,525	1,430	487	1.42
Newmarket.....	8,055	2,726	7,062	156,394	14,670,100	2,347	521	1.07
◆New Toronto.....	11,664	4,052	26,148	225,068	20,610,208	3,746	458	1.09
Niagara.....	2,669	1,068	1,822	67,660	5,738,450	928	515	1.18
◆Niagara Falls.....	22,575	7,480	17,315	380,168	30,130,765	6,889	364	1.26
◆Nipigon Twp.....	2,700	731	1,699	36,728	4,025,990	666	504	0.91
North Bay.....	23,010	7,499	16,879	461,843	39,938,924	6,273	531	1.16
North York Twp.....	244,145	79,727	189,151	5,215,014	479,034,282	72,372	552	1.09
Norwich.....	1,705	673	1,018	36,824	2,839,798	557	425	1.30
◆Norwood.....	1,110	412	640	19,187	1,711,479	373	382	1.12
Oakville: ◆Trafalgar.....	40,540	10,840	34,623	818,540	66,450,004	9,851	562	1.23
◆Oil Springs.....	480	225	301	6,547	449,713	178	211	1.46
Omeme.....	813	302	449	13,979	1,123,124	257	364	1.24
◆Orangeville.....	4,643	1,694	3,620	108,782	8,912,550	1,530	485	1.22
Orillia.....	14,515	5,421	7,466	259,412	26,650,044	4,620	481	0.97
◆Orono.....	897	364	520	18,826	1,490,081	342	363	1.26
◆Oshawa.....	60,135	19,255	67,591	979,496	116,597,560	17,359	560	0.84

For explanation of symbols see page 264.

**Utilities and Local Systems**  
**AND CONSUMPTION**  
**December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
15,142	841,124	48	1,460	1.80	1,232	82,890	3	26	2,303	1.49
31,461	2,100,230	199	879	1.50	41,485	3,258,509	35	1,203	7,758	1.27
8,255	483,980	65	620	1.71	2,777	97,251	4	83	2,026	2.86
2,751	174,880	20	729	1.57	3,894	336,060	7	152	4,001	1.16
72,680	4,052,393	191	1,768	1.79	651,627	92,303,009	23	16,570	334,431	0.71
47,992	4,180,302	144	2,419	1.15	129,063	15,063,532	63	6,163	19,925	0.86
6,453	365,423	61	499	1.77	4,459	276,244	8	143	2,878	1.61
3,798	179,525	14	1,069	2.12	745	43,107	3	19	1,197	1.73
39,212	2,446,317	133	1,618	1.60	74,885	5,727,660	20	2,010	17,678	1.31
11,768	568,878	48	988	2.07	12,861	656,151	16	431	3,417	1.96
100,408	7,524,812	252	2,488	1.33	59,020	4,790,187	42	1,963	9,504	1.23
16,624	898,756	66	1,135	1.85	37,929	2,779,027	25	1,053	9,263	1.36
1,622	89,482	12	621	1.81	2,810	191,530	3	82	5,320	1.47
18,004	1,316,993	72	1,524	1.37	8,230	698,920	15	281	3,883	1.18
4,660	207,980	21	825	2.24	4,181	163,080	3	154	4,530	2.56
24,949	1,662,200	78	1,776	1.50	17,259	1,171,960	26	580	3,756	1.47
45,801	3,474,168	148	1,956	1.32	33,415	2,918,292	33	1,266	7,369	1.15
1,452	84,160	16	438	1.73	2,057	145,780	2	89	6,074	1.41
1,117	63,520	11	481	1.76						
3,797	148,100	25	494	2.56	3,363	172,800	4	105	3,600	1.95
2,100	95,255	23	345	2.20	254	4,800	1	13	400	5.30
12,900	803,064	70	956	1.61	10,342	768,661	10	293	6,406	1.35
12,347	700,625	49	1,192	1.76	20,530	1,307,420	18	603	6,053	1.57
56,112	2,748,618	169	1,441	2.04	39,942	2,770,076	16	1,200	8,878	1.44
111,085	7,224,201	327	1,841	1.54	78,068	6,486,823	52	2,445	10,396	1.20
134,040	10,443,481	269	3,235	1.28	881,876	116,630,481	37	25,140	262,681	0.76
24,805	1,415,922	125	944	1.75	6,559	390,750	15	215	2,171	1.68
336,781	27,702,661	543	4,251	1.22	239,052	24,283,672	48	7,413	42,159	0.98
19,773	1,784,364	56	2,655	1.11	12,733	1,593,570	9	399	14,755	0.80
291,271	21,276,258	1,087	1,631	1.37	128,517	11,496,314	139	3,825	6,892	1.12
2,412,287	158,004,178	6,144	2,143	1.53	1,608,091	154,744,758	1,211	53,599	10,649	1.04
16,135	777,246	103	629	2.08	4,800	242,769	13	167	1,556	1.98
5,574	344,824	34	845	1.62	4,185	205,850	5	169	3,431	2.03
258,532	14,013,271	792	1,474	1.84	706,290	79,726,318	197	17,066	33,725	0.89
1,552	66,440	14	395	2.34	7,597	741,362	33	170	1,872	1.02
4,911	211,352	40	440	2.32	3,899	274,626	5	89	4,577	1.42
36,504	2,392,523	122	1,634	1.53	23,896	1,656,831	42	1,049	3,287	1.44
162,324	12,482,211	660	1,576	1.30	300,976	31,194,513	141	11,804	18,436	0.96
4,851	305,443	19	1,340	1.59	2,756	180,168	3	93	5,005	1.53
408,809	34,233,406	1,625	1,756	1.19	1,359,260	174,066,763	271	43,219	53,526	0.78

# Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Ottawa (including Eastview and Rockcliffe Park)...	281,542	87,629	188,731	4,404,803	581,874,068	76,590	633	0.76
Otterville.....	726	287	449	13,642	1,177,473	233	421	1.16
◆Owen Sound.....	17,657	6,125	12,600	339,828	32,079,255	5,681	471	1.06
Paisley.....	744	327	478	13,929	1,078,530	255	352	1.29
Palmerston.....	1,526	625	1,296	30,165	2,800,213	510	458	1.08
Paris.....	5,778	1,973	3,660	103,131	7,825,456	1,714	380	1.32
◆Parkhill.....	1,136	498	911	26,954	2,022,741	444	380	1.33
◆Parry Sound.....	6,057	1,978	2,306	117,994	9,537,790	1,806	454	1.24
◆Penetanguishene.....	4,856	1,415	2,809	62,104	6,439,324	1,301	412	0.96
◆Perth.....	5,831	1,994	4,175	91,819	9,290,059	1,816	426	0.99
Peterborough.....	46,424	14,757	38,533	883,187	84,046,544	13,099	535	1.05
◆Petrolia.....	3,649	1,309	1,768	49,421	3,106,509	1,101	235	1.59
◆Pickering.....	1,764	487	899	40,039	2,719,900	453	500	1.47
◆†Pickle Lake Landing Townsite.....	\$200	106	136	5,845	359,044	76	394	1.63
◆Picton.....	5,062	1,798	4,013	103,654	9,664,406	1,478	545	1.07
◆Plattsville.....	484	195	664	10,866	949,076	181	437	1.14
◆Point Edward.....	2,714	807	4,172	26,597	2,390,860	731	273	1.11
Port Arthur.....	42,581	13,673	43,670	718,651	85,673,732	11,992	595	0.84
◆Port Burwell.....	716	462	235	18,398	676,495	434	130	2.72
◆†Port Carling.....	*496	515	353	28,013	1,521,829	449	282	1.84
Port Colborne.....	15,024	4,614	6,708	189,599	14,166,046	4,046	292	1.34
◆Port Credit.....	6,564	2,774	10,974	155,846	14,683,262	2,615	468	1.06
◆Port Dalhousie.....	3,325	1,079	1,668	82,413	6,319,768	1,015	519	1.30
Port Dover.....	3,096	1,558	2,116	47,525	3,367,592	1,330	211	1.41
Port Elgin.....	1,723	1,064	1,169	46,347	3,104,345	879	294	1.49
◆Port Hope.....	8,072	2,824	7,987	177,682	15,508,832	2,629	492	1.15
◆Port McNicoll.....	1,016	495	1,364	18,274	1,474,799	482	255	1.24
◆Port Perry.....	2,247	833	1,572	44,071	4,210,965	784	448	1.05
◆Port Rowan.....	795	319	306	9,542	630,830	289	182	1.51
◆Port Stanley.....	*1,442	1,137	1,017	51,141	3,401,240	1,078	263	1.50
◆†Powassan.....	1,036	359	707	24,823	1,754,421	284	515	1.41
◆Prescott.....	5,235	1,745	3,722	86,065	9,336,628	1,616	481	0.92
◆Preston.....	11,338	3,360	9,332	205,856	17,368,935	3,102	467	1.19
◆Priceville.....	155	62	59	2,581	116,685	55	177	2.21
Princeton.....	438	174	282	8,623	751,710	132	475	1.15
◆Queenston.....	448	183	398	12,032	1,124,782	177	536	1.07
◆Rainy River.....	1,198	452	561	42,007	1,429,520	419	284	2.94
◆†Red Lake Twp.....	2,377	1,063	1,611	64,293	3,707,358	850	363	1.73
◆Red Rock.....	1,740	331	924	21,157	2,441,419	310	656	0.87
◆Renfrew.....	8,409	2,716	4,564	139,115	13,290,852	2,468	449	1.05

For explanation of symbols see page 264.



Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer per kwh	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
4,933,466	415,216,004	10,838	3,193	1.19	473,813	43,063,870	201	15,924	17,854	1.10
5,110	274,551	47	487	1.86	2,324	96,242	7	77	1,146	2.41
126,858	9,517,444	306	2,592	1.33	142,176	12,516,404	138	5,653	7,558	1.14
7,953	408,380	65	524	1.95	3,294	253,291	7	85	3,015	1.30
14,479	901,011	95	790	1.61	11,100	823,806	20	474	3,433	1.35
33,462	2,291,611	223	856	1.46	55,989	4,929,291	36	2,194	11,410	1.14
13,019	692,155	41	1,407	1.88	9,733	480,795	13	314	3,082	2.02
55,607	3,243,289	149	1,331	1.71	20,449	1,570,593	23	652	5,691	1.30
21,720	1,860,068	90	1,722	1.17	37,247	4,167,752	24	1,404	14,471	0.89
39,012	3,168,325	135	1,956	1.23	43,018	4,224,687	43	1,806	8,187	1.02
435,597	27,689,438	1,410	1,636	1.57	594,610	72,717,747	248	20,189	24,435	0.82
32,199	1,567,968	173	755	2.05	35,335	1,688,085	35	923	4,019	2.09
9,364	644,171	30	1,789	1.45	4,641	354,420	4	158	7,384	1.31
2,490	136,668	29	393	1.82	358	11,980	1	12	998	2.99
59,184	4,105,324	278	1,231	1.44	20,080	1,959,396	42	890	3,888	1.02
1,600	69,500	11	527	2.30	16,487	1,607,295	3	411	44,647	1.03
13,555	983,990	51	1,608	1.38	121,513	11,841,776	25	4,098	39,473	1.03
413,937	38,358,934	1,622	2,065	1.08	581,859	68,750,884	59	24,243	43,077	0.85
4,325	185,172	24	643	2.34	723	6,180	4	53	129	11.70
14,908	613,242	60	852	2.43	1,463	114,090	6	55	1,585	1.28
109,579	6,034,019	488	1,030	1.82	80,813	7,042,827	80	2,545	7,336	1.15
68,993	5,061,354	148	2,850	1.36	289,980	45,041,498	11	6,450	341,223	0.64
11,581	711,344	47	1,261	1.63	10,554	572,296	17	314	2,805	1.84
28,417	1,768,025	192	767	1.61	45,210	4,012,348	36	1,393	9,288	1.13
25,227	1,238,404	171	604	2.04	13,101	715,867	14	338	4,261	1.83
54,537	3,825,281	145	2,198	1.43	157,301	16,108,682	50	4,724	26,848	0.98
2,510	146,800	11	1,112	1.71	30,859	1,649,040	2	995	68,710	1.87
11,106	817,964	36	1,893	1.36	5,967	400,858	13	246	2,570	1.49
5,632	350,565	27	1,082	1.61	713	27,145	3	26	754	2.63
11,038	636,690	42	1,263	1.73	7,852	329,750	17	339	1,616	2.38
10,453	547,529	71	652	1.91	801	22,722	4	24	379	3.53
27,620	1,922,854	93	1,723	1.44	40,868	3,575,776	36	1,534	8,277	1.14
49,282	3,045,278	152	1,670	1.62	234,332	19,323,275	106	7,913	15,191	1.21
828	44,795	7	533	1.85						
3,550	185,893	39	397	1.91	1,441	58,745	3	54	1,632	2.45
4,908	376,332	6	3,920	1.30						
13,287	398,170	25	1,327	3.34	3,779	174,906	8	92	1,822	2.16
43,567	2,594,475	203	1,065	1.68	10,943	414,361	10	269	3,453	2.64
13,084	1,068,817	20	4,453	1.22	1,541	172,000	1	56	14,333	0.90
52,551	3,937,134	185	1,773	1.33	79,564	7,872,572	63	3,020	10,413	1.01

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Richmond .....	1,183	331	700	22,000	1,824,716	316	481	1.21
◆ Richmond Hill .....	16,095	4,712	10,920	347,468	26,686,920	4,485	496	1.30
◆ Ridgetown .....	2,612	1,046	1,425	31,477	2,197,365	849	216	1.43
◆ Ripley .....	442	217	310	10,402	857,590	196	365	1.21
◆ Riverside .....	17,549	5,346	8,074	288,579	20,487,724	5,201	328	1.41
◆ Rockland .....	2,919	736	1,191	37,209	3,133,784	697	375	1.19
◆ Rockwood .....	897	291	448	17,580	1,377,110	272	422	1.28
◆ Rodney .....	1,067	445	578	13,021	1,051,070	353	248	1.24
◆ Rosseau .....	228	127	111	4,895	276,460	119	194	1.77
◆ Russell .....	556	209	358	8,866	914,080	192	397	0.97
◆ St. Catharines .....	41,163	14,105	42,210	779,145	58,285,283	12,218	398	1.34
◆ St. Clair Beach .....	1,416	429	648	30,459	1,944,131	413	392	1.57
◆ St. George .....	754	308	575	10,739	1,149,971	278	345	0.93
◆ St. Jacobs .....	715	227	476	12,560	1,052,351	182	482	1.19
◆ St. Mary's .....	4,509	1,646	9,700	101,944	8,504,066	1,505	471	1.20
◆ St. Thomas .....	22,348	7,033	14,860	374,790	30,126,086	6,201	405	1.24
◆ Sandwich East Twp. ....	21,864	6,191	7,183	364,872	16,414,113	5,921	231	2.22
◆ Sandwich West Twp. ....	27,786	7,862	13,311	557,320	31,577,911	7,464	353	1.76
◆ Sarnia .....	49,089	15,419	132,813	745,006	55,923,697	14,443	323	1.33
◆ Scarborough Twp. ....	197,969	59,815	151,177	4,212,528	359,763,818	56,934	527	1.17
◆ Schreiber Twp. ....	2,165	647	1,428	37,021	4,319,614	607	593	0.86
◆ Seaforth .....	2,260	865	1,842	42,669	3,758,415	769	407	1.14
◆ Shelburne .....	1,247	570	872	26,668	2,008,230	516	351	1.33
◆ Simcoe .....	8,453	3,139	8,071	116,316	11,300,780	2,795	337	1.03
◆ Sioux Lookout .....	2,645	943	1,813	70,537	4,863,079	799	507	1.45
◆ Smith's Falls .....	9,082	3,330	7,692	168,551	16,598,180	2,846	486	1.02
◆ Smithville .....	835	375	607	12,984	909,167	275	276	1.43
◆ Southampton .....	1,716	1,158	1,034	39,773	2,894,420	1,019	237	1.37
◆†South Porcupine Townsite..	\$5,600	1,893	2,605	96,511	6,478,191	1,616	334	1.49
◆ Springfield .....	536	182	269	8,217	716,780	172	347	1.15
◆ Stamford Twp. ....	29,655	8,931	18,212	587,156	45,934,303	8,253	464	1.28
◆ Stayner .....	1,624	648	1,127	33,631	2,594,928	524	413	1.30
◆ Stirling .....	1,328	536	975	28,061	2,465,551	479	429	1.14
◆ Stoney Creek .....	6,130	1,952	4,139	135,841	12,345,320	1,850	556	1.10
◆ Stouffville .....	3,052	1,066	2,198	74,514	5,815,033	983	505	1.28
◆ Stratford .....	20,432	6,978	15,928	426,606	37,437,191	6,164	506	1.14
◆ Strathroy .....	4,844	1,807	3,579	87,743	8,124,685	1,600	438	1.08
◆ Streetsville .....	4,979	1,445	3,419	97,340	7,078,997	1,283	460	1.38
◆ Sturgeon Falls .....	6,288	1,613	2,672	97,199	7,139,358	1,512	393	1.36
◆ Sudbury .....	77,356	22,216	44,831	1,444,257	124,278,030	20,011	518	1.16

For explanation of symbols see page 264.

**Utilities and Local Systems**  
**AND CONSUMPTION**  
**December 31, 1960**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
7,069	444,010	15	2,467	1.59						
104,001	6,700,175	175	3,191	1.55	88,673	7,032,239	52	2,415	11,270	1.26
25,873	1,460,860	167	729	1.77	29,434	1,795,490	30	896	4,987	1.64
2,923	167,600	18	776	1.74	1,931	93,625	3	75	2,601	2.06
41,151	2,694,289	114	1,970	1.53	38,262	2,378,434	31	1,368	6,394	1.61
8,795	538,219	35	1,281	1.63	1,684	161,520	4	72	3,365	1.04
3,615	221,586	18	1,026	1.63	1,421	58,000	1	41	4,833	2.45
7,784	468,302	81	482	1.66	7,059	304,440	11	254	2,306	2.32
1,981	102,332	8	1,066	1.94						
1,934	136,950	14	815	1.41	609	36,570	3	36	1,016	1.67
474,871	27,655,408	1,633	1,411	1.72	1,058,670	110,172,797	254	30,951	36,146	0.96
3,422	189,580	10	1,580	1.81	2,854	111,500	6	107	1,549	2.56
4,904	390,924	23	1,416	1.25	6,278	551,445	7	204	6,565	1.14
7,657	398,690	36	923	1.92	5,611	183,738	9	239	1,701	3.05
24,649	1,536,267	96	1,334	1.60	343,674	48,997,194	45	8,861	90,736	0.70
180,226	13,146,585	722	1,517	1.37	281,112	29,965,679	110	9,151	22,701	0.94
82,201	3,709,608	203	1,523	2.22	132,051	6,185,160	67	3,046	7,693	2.13
172,603	9,713,780	329	2,460	1.78	115,412	7,049,116	69	2,668	8,513	1.64
360,341	24,218,109	806	2,504	1.49	4,879,498	825,395,334	170	105,769	404,606	0.59
1,389,214	103,496,378	2,566	3,361	1.34	1,453,237	145,686,252	315	42,104	38,541	1.00
10,703	911,467	37	2,053	1.17	3,450	421,760	3	111	11,716	0.82
20,459	1,252,420	75	1,392	1.63	18,489	1,381,344	21	618	5,482	1.34
14,317	810,840	42	834	1.77	6,438	344,050	12	250	2,389	1.87
95,415	7,044,900	249	2,358	1.35	155,338	15,997,316	95	5,223	14,033	0.97
39,602	1,599,549	127	1,050	2.48	14,097	1,198,253	17	308	5,874	1.18
91,149	7,053,172	428	1,373	1.29	64,199	6,740,836	56	2,357	10,031	0.95
11,368	545,618	85	535	2.08	13,740	718,244	15	428	3,990	1.91
17,997	884,370	126	585	2.04	16,660	996,530	13	471	6,388	1.67
44,917	2,516,921	270	827	1.78	4,693	339,856	7	175	1,205	1.38
1,359	101,170	7	1,204	1.34	1,436	51,475	3	92	1,430	2.79
204,583	9,684,138	576	1,401	2.11	211,978	17,706,440	102	6,813	14,466	1.20
16,122	791,970	106	623	2.04	10,238	728,847	18	342	3,374	1.40
8,464	503,156	40	1,048	1.68	5,838	407,535	17	230	1,998	1.43
33,153	2,475,034	84	2,455	1.34	11,118	850,900	18	407	3,939	1.31
28,878	1,563,426	68	1,416	1.85	11,931	593,145	15	359	3,295	2.01
188,040	12,541,650	655	1,596	1.50	246,019	22,760,933	159	8,428	11,929	1.08
43,070	2,907,806	152	1,182	1.48	56,650	4,115,721	55	2,063	6,236	1.38
32,212	1,811,005	134	1,126	1.78	38,867	3,649,573	28	1,095	10,862	1.06
38,871	2,392,148	85	2,345	1.62	4,855	406,795	16	154	2,119	1.19
696,722	41,162,038	1,962	1,748	1.69	200,014	15,840,914	243	6,329	5,432	1.26

# Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Sunderland.....	611	262	411	11,660	1,066,850	239	372	1.09
◆Sundridge.....	765	296	378	14,395	964,150	267	301	1.49
◆Sutton.....	1,405	890	1,004	32,850	2,674,677	726	307	1.23
◆Swansea.....	9,529	3,528	6,423	180,125	19,007,645	3,364	471	0.95
◆Tara.....	506	235	480	10,079	862,320	211	341	1.17
◆Tavistock.....	1,222	510	912	27,848	2,320,052	398	486	1.20
◆Tecumseh.....	4,416	1,337	1,543	63,987	3,822,308	1,276	250	1.67
◆Teeswater.....	895	360	715	15,909	1,379,220	323	356	1.15
◆Terrace Bay Twp.....	1,900	428	1,416	33,922	4,756,102	400	991	0.71
◆Thamesford.....	984	352	779	26,382	1,923,301	332	483	1.37
◆Thamesville.....	1,040	442	673	15,119	1,058,290	388	227	1.43
◆Thedford.....	738	315	502	13,119	1,158,790	286	338	1.13
◆Thessalon.....	1,717	534	748	31,164	1,754,210	440	332	1.78
◆Thornbury.....	1,161	534	875	24,570	1,599,219	433	308	1.54
◆Thorndale.....	416	137	280	9,460	692,089	128	451	1.37
◆†Thornloe.....	194	38	41	2,197	140,039	27	432	1.57
◆Thornton.....	289	103	145	5,256	394,920	90	366	1.33
◆Thorold.....	8,602	2,566	11,650	134,138	10,734,023	2,287	391	1.25
◆Tilbury.....	3,070	1,053	1,356	35,317	2,237,536	926	201	1.58
◆Tillsonburg.....	6,542	2,450	5,919	107,023	8,488,345	2,151	329	1.26
◆†Timmins (including Schumacher).....	31,441	9,598	15,943	579,146	42,247,846	8,291	425	1.37
◆Toronto (including Leaside)	657,233	208,956	611,872	11,753,682	937,716,480	175,156	446	1.25
◆Toronto Twp.....	59,983	15,130	55,004	1,155,504	102,675,231	14,384	595	1.13
◆Tottenham.....	781	271	464	14,388	1,263,230	246	460	1.14
◆Trenton.....	12,314	4,078	15,264	210,183	23,551,276	3,744	532	0.89
◆Tweed.....	1,717	624	1,150	24,367	2,914,520	556	437	0.84
◆Uxbridge.....	2,369	888	1,747	45,122	4,333,300	804	449	1.04
◆Vankleek Hill.....	1,690	544	657	24,989	1,636,424	497	274	1.53
◆Victoria Harbour.....	999	494	376	19,239	1,120,860	456	205	1.72
◆Walkerton.....	3,835	1,295	2,928	64,701	5,754,176	1,184	405	1.12
◆Wallaceburg.....	8,029	2,744	7,037	84,272	6,768,829	2,442	231	1.25
◆Wardsville.....	313	148	199	5,198	391,916	114	286	1.33
◆Warkworth.....	524	236	332	9,906	842,996	227	309	1.18
◆Wasaga Beach.....	*414	1,038	276	28,117	1,138,370	834	114	2.47
◆Waterdown.....	1,834	589	1,175	40,360	3,335,714	498	558	1.21
◆Waterford.....	2,155	823	1,099	41,323	2,828,842	786	300	1.46
◆Waterloo.....	20,562	6,445	17,040	395,652	38,890,633	5,885	551	1.02
◆Watford.....	1,235	524	1,236	26,107	2,167,773	469	394	1.20
◆Waubashene.....	\$1,400	443	298	14,522	830,575	410	169	1.75
◆Webbwood.....	590	155	182	10,947	401,562	128	261	2.73

For explanation of symbols see page 264.



Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
3,440	173,550	19	761	1.98	3,080	207,030	4	100	4,313	1.49
7,614	394,090	26	1,263	1.93	1,271	57,010	3	40	1,584	2.23
21,507	1,282,092	152	703	1.68	5,265	270,700	12	169	1,880	1.94
60,212	4,668,043	142	2,739	1.29	61,355	7,488,566	22	1,906	28,366	0.82
2,918	172,520	18	799	1.69	6,297	572,160	6	163	7,947	1.10
11,084	543,327	103	440	2.04	9,267	502,724	9	286	4,655	1.84
13,261	774,711	50	1,291	1.71	10,574	740,768	11	318	5,612	1.43
5,317	305,265	29	877	1.74	11,358	943,370	8	346	9,827	1.20
14,724	1,377,860	26	4,416	1.07	4,994	704,000	2	132	29,333	0.71
3,561	186,804	15	1,038	1.91	10,109	826,383	5	224	13,773	1.22
8,874	580,624	38	1,273	1.53	16,464	816,876	16	608	4,255	2.02
4,152	268,500	24	932	1.55	2,889	283,350	5	85	4,723	1.02
19,802	949,516	87	909	2.09	3,730	262,365	7	90	3,123	1.42
12,459	570,150	83	572	2.19	15,112	989,582	18	560	4,581	1.53
1,111	53,196	6	739	2.09	2,093	79,754	3	73	2,215	2.62
1,306	64,137	11	486	2.04						
1,280	50,600	13	324	2.53						
48,980	2,984,886	233	1,068	1.64	350,518	50,487,075	46	9,286	91,462	0.69
24,268	1,448,978	101	1,196	1.67	24,385	1,073,240	26	960	3,440	2.27
89,582	6,138,122	247	2,071	1.46	63,222	5,337,891	52	1,976	8,554	1.18
284,426	16,525,898	1,275	1,128	1.72	32,137	1,692,160	32	792	1,640	1.90
9,259,394	629,701,930	26,802	1,958	1.47	15,301,553	1,521,639,865	6,998	411,561	18,120	1.01
374,713	26,261,811	578	3,786	1.43	1,409,499	167,561,038	168	35,622	83,116	0.84
4,334	215,965	20	486	2.01	1,926	179,868	5	58	2,998	1.07
85,481	7,427,900	249	2,016	1.15	354,242	51,972,275	85	10,918	50,953	0.68
10,322	868,433	54	1,340	1.19	6,759	659,144	14	309	3,923	1.03
14,987	945,267	60	1,313	1.59	23,247	1,262,763	24	820	4,385	1.84
8,451	463,079	36	1,072	1.82	4,534	139,189	11	219	1,054	3.26
4,554	196,480	36	455	2.32	539	34,560	2	12	1,440	1.56
31,161	1,979,152	92	1,793	1.57	30,358	2,480,274	19	983	10,878	1.22
58,593	4,399,766	213	1,721	1.33	243,333	30,537,699	89	7,359	28,593	0.80
5,969	312,850	34	767	1.91						
1,985	116,030	9	1,074	1.71						
25,341	1,108,589	203	455	2.29	336	8,000	1	13	667	4.19
12,817	689,680	74	777	1.86	4,500	278,549	17	160	1,365	1.62
9,379	509,540	25	1,698	1.84	11,343	533,160	12	400	3,703	2.13
183,416	11,680,796	467	2,084	1.57	261,140	24,993,619	93	7,295	22,396	1.04
13,122	719,869	43	1,132	1.82	25,888	1,995,003	12	785	13,854	1.30
3,825	201,410	30	559	1.90	2,308	73,160	3	64	2,032	3.15
5,497	166,486	26	534	3.30	631	43,800	1	13	3,650	1.44

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1960	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Welland.....	17,556	5,496	14,385	190,665	15,370,986	4,702	272	1.24
Wellesley.....	670	278	469	14,121	1,001,452	218	383	1.41
◆Wellington.....	1,002	497	588	17,986	1,813,120	465	325	0.99
◆West Ferris Twp.....	5,096	1,835	4,014	127,925	8,841,126	1,695	435	1.45
◆West Lorne.....	1,077	428	934	18,003	1,195,754	383	260	1.51
◆Weston.....	9,419	3,398	8,461	196,760	17,959,095	3,102	489	1.10
◆Westport.....	693	293	394	11,451	1,074,790	267	335	1.07
Wheatley.....	1,337	490	851	19,008	1,245,154	399	260	1.53
◆Whitby.....	12,501	3,732	11,476	224,036	19,625,292	3,408	480	1.14
◆†White River.....	818	230	487	22,907	883,812	212	347	2.59
◆Warton.....	2,038	791	1,370	35,773	3,519,480	707	415	1.02
Williamsburg.....	336	147	254	4,615	521,527	108	402	0.88
Winchester.....	1,379	558	1,288	26,621	2,167,560	446	405	1.23
◆Windermere.....	*119	120	73	4,968	292,350	108	226	1.70
◆Windsor.....	116,160	37,142	81,014	1,408,046	125,232,323	34,335	304	1.12
◆Wingham.....	2,770	1,045	2,266	54,692	5,607,010	930	502	0.98
◆Woodbridge.....	2,293	754	2,164	50,249	4,641,625	698	554	1.08
◆Woodstock.....	19,923	6,798	17,988	418,067	37,298,668	6,296	494	1.12
Woodville.....	422	197	242	8,895	584,086	156	312	1.52
◆Wyoming.....	876	330	369	9,980	745,490	299	208	1.34
◆York Twp.....	123,457	40,423	67,987	2,029,551	212,262,622	38,670	457	0.96
Zurich.....	737	304	452	14,712	1,008,360	244	344	1.46

- ◆ New municipal retail rate structure
- ◆ and with small commercial customers transferred to residential billing
- † Local system
- \* Excluding summer population
- § Estimated

Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1960

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
160,270	10,083,055	662	1,269	1.59	372,623	40,793,395	132	10,756	25,753	0.91
6,166	322,340	53	507	1.91	2,527	115,617	7	82	1,376	2.19
3,581	229,572	17	1,125	1.56	4,496	240,781	15	187	1,338	1.87
44,131	2,534,566	124	1,703	1.74	44,014	5,023,323	16	1,058	26,163	0.88
9,605	496,733	34	1,217	1.93	26,633	1,855,610	11	665	14,058	1.44
130,998	9,135,034	259	2,521	1.43	158,261	14,717,982	37	4,707	21,330	1.08
6,401	430,720	24	1,496	1.49	142	3,073	2	10	128	4.63
18,493	899,655	76	986	2.06	17,547	852,200	15	499	4,734	2.06
77,050	5,291,300	273	1,615	1.46	215,406	24,854,813	51	6,541	40,612	0.87
9,271	313,027	17	1,534	2.96	6,470	458,820	1	82	38,235	1.41
17,254	1,175,655	67	1,462	1.47	10,711	748,534	17	361	3,669	1.43
3,933	273,846	38	601	1.44	259	15,830	1	6	1,319	1.64
13,822	851,170	101	702	1.62	22,675	2,275,148	11	574	17,236	1.00
2,834	169,360	12	1,176	1.67						
855,446	65,276,683	2,047	2,657	1.31	1,879,491	172,216,246	760	65,467	18,883	1.09
21,987	1,434,805	82	1,458	1.53	35,742	2,767,252	33	1,257	6,988	1.29
17,617	1,047,437	44	1,984	1.68	39,485	3,400,341	12	1,177	23,613	1.16
138,690	10,068,614	360	2,331	1.38	381,975	39,881,910	142	11,907	23,405	0.96
3,528	142,220	39	304	2.48	1,138	35,670	2	33	1,486	3.19
4,309	276,521	24	960	1.56	8,107	380,590	7	301	4,531	2.13
497,346	40,545,018	1,228	2,751	1.23	649,327	68,827,149	525	23,053	10,925	0.94
9,368	381,856	55	579	2.45	1,256	63,800	5	33	1,063	1.97

## NOTES

The figures shown in italics under the heading "Monthly consumption per customer" have been estimated to allow for the transfer of small commercial customers to residential service and/or certain power service customers to commercial service.

In accordance with revisions introduced into the *Standard Interpretation of Rates* in 1960, the service formerly designated as Domestic is now known as Residential Service and that formerly designated as Power Service is now known as Industrial Power Service.

LIST OF ABBREVIATIONS

bhp —brake horsepower  
cfs —cubic feet per second  
C.L.C. —Canadian Labour Congress  
D.S. —Distributing Station  
G.S. —Generating Station  
hp —horsepower  
Jct. —Junction  
kv —kilovolt(s)  
kva —kilovolt-ampere(s)  
kvar —kilovar(s)  
kw —kilowatt(s)  
kwh —kilowatt-hour(s)

M.E.U.—Municipal Electrical Utilities  
min —minimum  
—minute (20-min)  
N.O.P.—Northern Ontario Properties  
R.O.A.—Rural Operating Area  
R.P.D.—Rural Power District  
rpm —revolutions per minute  
S.O.S.—Southern Ontario System  
S.S. —Switching Station  
T.S. —Transformer Station  
Twp. —Township

INDEX

In the index all page references to tables or graphs are in italic type figures. The code letters refer to statements in the text as follows:

- A = Statements "A" and "B"—Financial Statements of the Municipal Electrical Utilities  
C = Statement "C"—Rates and Typical Bills for Electrical Service in Municipal Electrical Utilities and Local Systems  
D = Statement "D"—Customers, Revenue, and Consumption in Municipal Electrical Utilities and Local Systems  
P = Statement of the Allocation of the Cost of Primary Power  
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Code letters A, C, D, with page references, represent each of the statements so designated. P represents Cost of Primary Power, and S Sinking Fund Equity.







OTTER RAPIDS GENERATING STATION - ABITIBI RIVER - With the installation of the second unit in October 1961, the first stage of construction at Otter Rapids Generating Station was complete. Two further units are scheduled for service in the second stage in 1963. The necessary minimum provision has been made for an ultimate installation of eight units.





# The Hydro-Electric Power Commission of Ontario

*Fifty-fourth*

## Annual Report

*for the year*

# 1961

This Report is published pursuant to The Power Commission Act,  
Revised Statutes of Ontario, 1960, Chapter 300, Section 10.

# THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

December 1961

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W. ROSS STRIKE, Q.C.  
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GEORGE E. GATHERCOLE  
*1st Vice-Chairman*

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*2nd Vice-Chairman*

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*Commissioner*

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D. P. CLIFF  
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C. B. C. SCOTT  
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*Personnel*

H. J. SISSONS  
*Assistant General Manager*  
*Services*

## LETTER OF TRANSMITTAL

TORONTO, ONTARIO, JULY 3, 1962

THE HONOURABLE JOHN KEILLER MACKAY, D.S.O., V.D., LL.D.

*Lieutenant-Governor of Ontario*

SIR:

I have the honour to present the Annual Report of The Hydro-Electric Power Commission of Ontario for the year ended December 31, 1961.

The year marks another milestone in the development of the Hydro enterprise in Ontario. During 1961, extensive studies, prompted by the Ontario Municipal Electric Association, were undertaken for the amalgamation of the Southern Ontario System and the Northern Ontario Properties. This amalgamation is the final and logical step in a series of system amalgamations that have led over the past several decades to the physical and financial integration of an ever-widening network of electrical generating and transmitting facilities. In the southern part of the Province the Niagara, Georgian Bay, and Eastern Ontario Systems, themselves the result of several earlier consolidations, were merged in 1944 in the Southern Ontario System. In the north the combining of a number of small and some relatively isolated systems resulted in the Northern Ontario Properties, with which the former Thunder Bay System was amalgamated in 1952. The purpose of the present merger, like that prompting the earlier consolidations, will be the achievement of improved efficiency in operation and administration.

Nothing in the Commission's long history better demonstrates the co-operative and responsible partnership existing among the customer municipalities than the successful negotiation of the present plan to merge the resources of the

north with the substantially greater resources of the south in a province-wide system to be operated for the benefit of all. The amalgamation will bring about a simplification of power-costing procedures, and result in a more flexible financial system better equipped to withstand economic fluctuations. The legislation necessary to accomplish this step was enacted at the recent session of the Legislature, and was made effective January 1, 1962.

The Commission also acknowledges the splendid co-operation of the municipal commissions and their staffs in the common task of supplying the people of the Province with electric power at cost, and recognizes too their continuing effort to maintain that cost at the lowest level consistent with an appropriate standard of service. In the face of increasing competition a combined sales promotion effort on the part of the Commission and the local utilities was well and effectively supported by electrical manufacturers, distributors, dealers, and contractors. This evidence of strong, co-operative effort from the electrical industry as a whole is an encouraging promise of success in our effort to provide a continuously improving electrical service to our customers.

The trend of economic activity in Canada turned upward in February 1961. There was no significant evidence, however, of the upturn in the Commission's loads until the month of June, but thereafter the climb was distinctly encouraging. Power demands reached a new peak in December of 5,948,800 kilowatts, which represents an increase of 3.5 per cent over the corresponding peak of 5,745,700 kilowatts in 1960. Growth was, however, largely concentrated in the Southern Ontario System, as the Northern Ontario Properties continued to reflect little or no change in the power demands of the mining, and pulp and paper industries.

The dependable peak capacity of the Commission's resources to meet this December demand was 6,733,800 kilowatts. The effect of additional hydro-electric units in the Northern Ontario Properties, and of additional thermal-electric units in the Southern Ontario System was offset by downward adjustment in the capacities of other resources, the principal factor being a reduction in the amount of water available to the Commission with the increased use by the Power Authority of the State of New York of the United States' share of water on the Niagara River. Despite these downward revisions the reserve capacities on the Commission's power networks were not materially changed from those of last year, and though the reserve on the combined Southern Ontario System and Northeastern Division is still under 12 per cent, it is considered reasonably adequate to meet emergency conditions.

In its continuing program for the co-ordinated development of hydro-electric, thermal-electric, and nuclear resources, the Commission actually installed 500,000 kilowatts of capacity in thermal-electric stations, and added 108,000 kilowatts of dependable peak capacity in hydro-electric stations. The Richard L. Hearn Generating Station in Toronto was completed, and Lakeview Generating Station, west of Toronto, was placed in service. Red Rock Falls Generating Station on the Mississagi River was completed, and two units at Otter Rapids Generating Station on the Abitibi River were brought into service. Work proceeded on three new stations on the Mattagami River, and good progress was



made on preparations for the construction of an extra-high-voltage transmission line associated with the continuing development of hydro-electric resources in the north. Thunder Bay Generating Station at the Lakehead was made ready for testing in the spring of 1962. The first source of nuclear-electric power in Canada, the 20,000-kw Nuclear Power Demonstration station, is scheduled for initial service in 1962, and construction of the Douglas Point Nuclear Power Station is in progress.

Expenditure on capital construction during the year amounted to \$123.7 million, the lowest annual expenditure since 1955. Careful control of capital expenditure, together with various measures to conserve working capital, enabled the Commission to hold its borrowings during 1961 to \$100 million. The resulting benefits have been obtained without loss in the efficiency or quality of service. Indeed, it may be unequivocally stated that recent changes in inventory management and control in particular have notably reduced cost and improved operating efficiency.

The Commission's new research laboratory was completed in 1961, and the premises were occupied in September. In honour of W. P. Dobson, M.A.Sc., D.Sc., LL.D., who was the guiding force in the development of the Commission's research activities over a period of more than 40 years and a distinguished leader in the engineering and scientific community in Canada, the premises will be known as the Ontario Hydro W. P. Dobson Research Laboratory.

The Commission wishes to record its appreciation of the effort of all members of the staff in making possible another year of substantial accomplishment.

It was my pleasure, during the latter part of 1961, to welcome two new members to the Commission, Mr. George Edward Gathercole as First Vice-Chairman, and Mr. William Grenville Davis as Second Vice-Chairman. Mr. Gathercole succeeds the Hon. Robert W. Macaulay, who has made an outstanding contribution as the Government's representative on the Commission. As a result of increased responsibilities in the Government of the Province, Mr. Macaulay found it necessary to resign from the Vice-Chairmanship, but has remained a member of the Commission. To the other members of the Commission, who have been most active in carrying out their duties during 1961, I extend my sincere personal thanks, particularly to my predecessor, Mr. James S. Duncan, who gave notable leadership in public service as Chairman of Ontario Hydro for a period of over four and one-half years.

Respectfully submitted,

W. ROSS STRIKE,  
*Chairman.*

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FIFTY-FOURTH ANNUAL REPORT  
OF  
**The Hydro-Electric Power Commission  
of Ontario**

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**FOREWORD**

**T**HE Hydro-Electric Power Commission of Ontario is a corporate entity, a self-sustaining public enterprise endowed with broad powers with respect to electricity supply throughout the Province of Ontario. Its authority is derived from an Act of the Provincial Legislature passed in 1906 to give effect to recommendations of earlier advisory commissions that the water powers of Ontario should be conserved and developed for the benefit of the people of the Province. It now operates under The Power Commission Act (7-Edward VII, c. 19) passed in 1907 as an amplification of the Act of 1906 and subsequently modified from time to time (Revised Statutes of Ontario, 1960, c. 300, as amended). The Commission may have from three to six members, all of whom are appointed by the Lieutenant-Governor in Council. Under the Act as amended early in 1962, two Commissioners may be members of the Executive Council of the Province of Ontario.

**Systems and the Power Supply**

For the financial and administrative purposes of the Commission, the Province is divided into two parts. The roughly triangular part lying south of Lake Nipissing and the French and Mattawa Rivers is served by the Southern Ontario System, a fully integrated power system combining the Niagara, Georgian Bay, and Eastern Ontario Divisions. The system is operated on a co-operative basis predominantly for the benefit of more than three hundred municipal electrical utilities supplied with power at cost, but in part also, for the benefit of the Rural Power District which it serves. The northern part of the Province is served by the Northern Ontario Properties, held and operated for the most part in trust for the Province, but operated in part also for the benefit of a group of municipal utilities supplied

with power at cost. The Northern Ontario Properties include a Northeastern and a Northwestern Division. Each of these two divisions is an integrated power system, the former being interconnected with the Southern Ontario System.

In order to provide convenient, expeditious service in this dual function of regulation and supply, the Commission some years ago decentralized its province-wide operations among a number of regions. Effective January 1, 1962, there were eight regions with their respective administrative offices in eight major municipalities. The former Niagara and West Central Regions, which were progressively amalgamated during 1961, are now referred to jointly as the Niagara Region. In this 1961 report both regions are named but their statistics have been combined. After January 1, 1962, there were six regions in the south and two in the north; the two northern regions at present coincide with the two northern divisions.

The Commission is primarily concerned with the provision of electric power by generation or purchase and its delivery in bulk either for resale, or for use in the industrial operations of certain customers served directly. Power for resale is delivered to the associated municipal electrical utilities, to a number of independent municipal distribution systems, and to certain interconnected systems operating within or beyond the Provincial boundaries. The industrial customers served directly include mines and industries in unorganized areas. Some power users located within areas served by the municipal utilities are also served by the Commission since their power requirements may be so large or may create supply conditions so unusual as to make service by the local municipal utilities impracticable. In total, bulk delivery for resale and for industrial use accounts for about 90 per cent of the Commission's energy sales. The remaining 10 per cent of the Commission's sales are made to ultimate customers either in rural areas served on behalf of the townships by the Commission's rural distribution facilities, or in a relatively small group

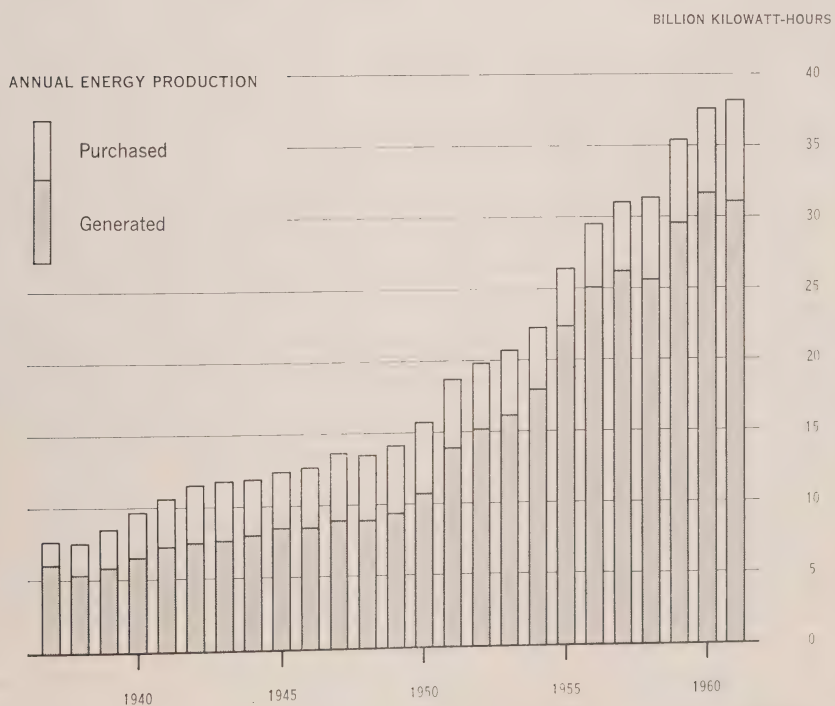
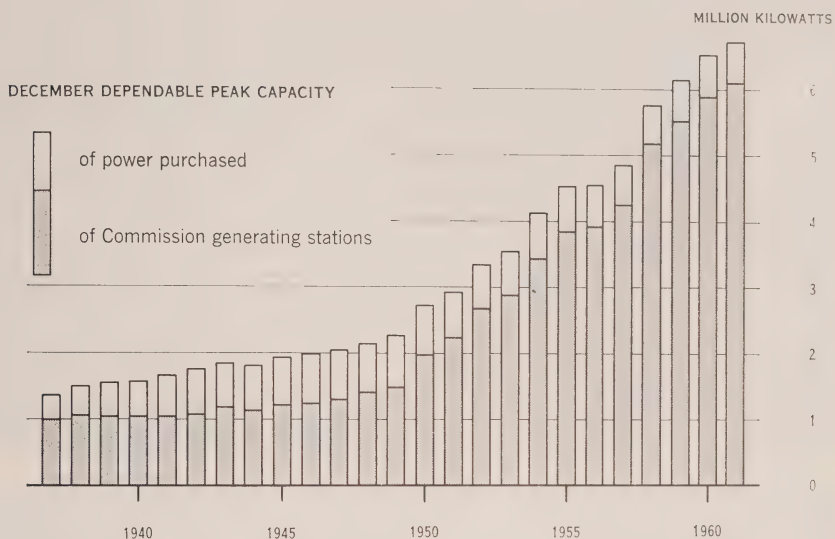


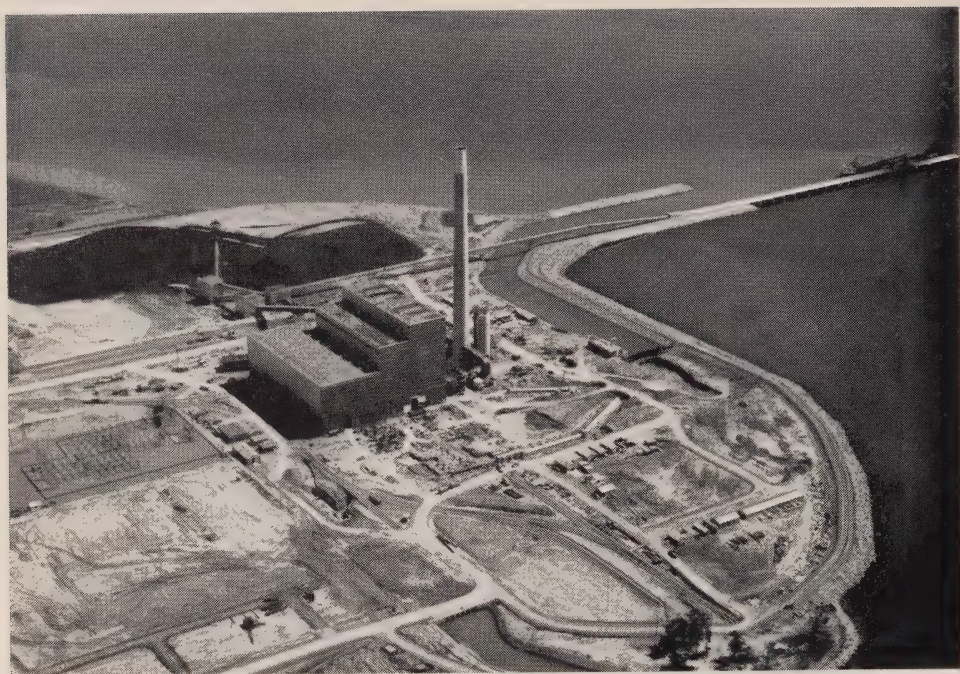
ONTARIO HYDRO W. P. DOBSON RESEARCH LABORATORY — The new quarters housing the Commission's research and testing activities were placed in service in September 1961. They provide more space, and facilities much more convenient than those that were available in the former laboratory on Strachan Avenue, which had been continuously used for these purposes since 1912.



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

TOTAL POWER RESOURCES AND ENERGY PRODUCTION





**LAKEVIEW GENERATING STATION** — Situated on a 145-acre site on the shore of Lake Ontario just west of Toronto, the station will be one of the largest thermal-electric stations in the world. The stack for the first two 300,000-kw units of the six proposed for installation rises 490 feet, a full 300 feet above the powerhouse building. The dock for the delivery of coal extends 2,000 feet from shore and is capable of handling two coal carriers at a time. Total coal-storage capacity will be approximately 2.5 million tons.

of municipalities served by Commission-owned local distribution systems. In general, however, retail service to ultimate customers in most cities and towns, in many villages, and in certain populous township areas is supplied by the associated electrical utilities, owned and operated by local commissions and functioning under the general supervision of The Hydro-Electric Power Commission of Ontario as provided for in The Power Commission Act and The Public Utilities Act.

### **Financial Features**

The basic principle governing financial operations of the undertaking and its associated municipal electrical utilities is that service is provided at cost. In the Commission's operations, cost of service includes payment for power purchased, charges for operating and maintaining the power systems, and related fixed charges. The fixed charges represent interest on debt, reserve provisions for depreciation and for contingencies and rate stabilization, and the further provision of a sinking fund reserve for retiring the Commission's long-term debt. The municipal utilities operating under cost contracts with the Commission are billed throughout the year at interim rates based on estimates of the cost of service. At the end of the year, when the actual cost of service is established, the necessary balancing (debit or credit) adjustments are made in their accounts. Retail rates for the municipal utilities are established at levels calculated to produce adequate revenue to meet



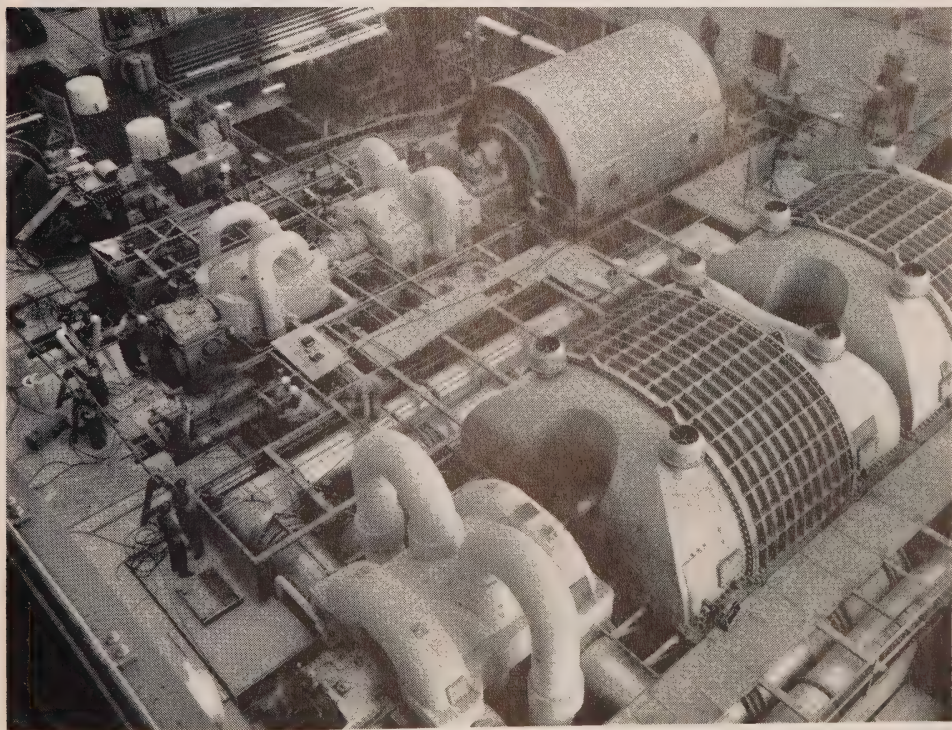
cost. The Commission's retail rate structure for rural service other than industrial power service has been uniform throughout the Province since 1944.

The enterprise from its inception has been self-sustaining. The Province, however, guarantees the payment of principal and interest on all bonds issued by the Commission and held by the public. In addition, the Province has materially assisted the development of agriculture by contributing under The Rural Hydro-Electric Distribution Act toward the capital cost of extending rural distribution facilities.

### Annual Summary—1961

During 1961 the Commission brought into service the last of four 200,000-kilowatt units to complete the eight-unit Richard L. Hearn Generating Station, one 300,000-kilowatt unit at Lakeview Generating Station, the second of two units at Red Rock Falls Generating Station on the Mississagi River having a combined dependable peak capacity of 40,000 kilowatts, and two units at Otter Rapids Generating Station on the Abitibi River, having a combined dependable capacity of 88,000 kilowatts.

In addition to the work involved in bringing these units into service during 1961, the Commission was engaged in constructing three other hydro-electric stations and completing a third conventional thermal-electric station. These are Little



**LAKEVIEW GENERATING STATION** — The first 300,000-kw turbo-generator is shown in position at the station. It underwent its first test in service beginning on October 31, 1961. Like the second unit, which is scheduled for service in 1962, this is a cross-compound impulse reaction machine with one stage of reheat. Each line drives a 150,000-kw, 16,000-volt generator at 0.85 power factor.

Long, Harmon, and Kipling Generating Stations on the Mattagami River, and Thunder Bay Generating Station in Fort William. Two nuclear-electric stations are also included in the current program of construction, the 20,000-kilowatt Nuclear Power Demonstration plant now nearing completion on the Ottawa River near Rolphston, Ontario, and the 200,000-kilowatt Douglas Point Nuclear Power Station being built on the shore of Lake Huron between Kincardine and Port Elgin.

The Commission's net revenue from the sale of primary power and energy rose by 2.8 per cent from \$229.2 million in 1960 to \$235.7 million in 1961. Revenue from the sale of secondary energy, amounting to \$4.5 million in 1961, was applied as in the past three years as an offset against the cost of power.

During the year under review good progress was made in planning for the proposed merging of the Southern Ontario System and the Northern Ontario Properties as the last in a series of amalgamations that have taken place in the Province over a period of several decades, all with the objective of achieving improved efficiency in operation and administration. These amalgamations have progressively led to the physical and financial integration of an ever-widening network of electrical generating and transmitting facilities. In the southern part of the Province the Niagara, Georgian Bay, and Eastern Ontario Systems, themselves the result of several earlier consolidations, were merged in 1944 in the Southern Ontario System. In the north, the combining of a number of small, and some relatively isolated systems resulted in a system known as the Northern Ontario Properties. Since 1952 the former Thunder Bay System has also been a part of this consolidation. Following the enactment of the required legislation in 1962, the amalgamation of the southern and northern systems became effective January 1, 1962. A balance sheet and certain supporting statements for the Amalgamated Systems as at January 1, 1962 are included in Appendix II of this Report.

## Statistical

	1952
Dependable peak capacity, December.....	thousand kw 3,353
Primary power requirements, December.....	thousand kw 3,278
Annual energy generated and purchased.....	million kwh 19,974
Primary.....	million kwh 18,774
Secondary.....	million kwh 1,200
Annual energy sold by the Commission.....	million kwh 17,728
Annual revenue of the Commission (net after refunds).....	million \$ 112
Fixed assets at cost.....	million \$ 1,177
Gross expenditure on fixed assets in year.....	million \$ 163
Total assets, less accumulated depreciation.....	million \$ 1,266
Long-term debt.....	million \$ 862
Transmission line.....	circuit miles 14,813
Primary rural distribution line.....	circuit miles 40,277
Average number of employees in year.....	19,570
Number of associated municipal electrical utilities.....	329
Ultimate customers served by the Commission and municipal utilities.....	thousands 1,316



## GUIDE TO THE REPORT

Details of the Commission's activities which have been briefly summarized in the foregoing paragraphs are given in the six sections and four appendices of the Report which follow. Operations, finance, and customer relations are the subjects of the first three sections and their related appendices. The narrative in Section I dealing with the production, purchase, and delivery of power is supplemented in the text by reports of weather conditions, maintenance, communications, and forestry, all of which are related to operations. Supplementary tables are in Appendix I. Section II includes the Commission's balance sheets, statements of financial operations, and tables showing the funded debt and advances from the Province of Ontario. Appendix II includes supporting schedules and accounts, in addition to the statements of reserves, sinking fund equity, and cost of power. In Section III, consideration is given first to the wholesale operation of supplying power to municipal electrical utilities and to certain interconnected systems for resale, and second to service to certain industrial customers supplied directly by the Commission. The supply of power in wholesale quantities to the rural operating areas is then briefly discussed under the heading Rural Electrical Service. This commentary is immediately followed by a discussion of retail aspects of service to ultimate customers served by the Commission in these areas. Supplementary information on rural service is to be found in Appendix III. Another subsection of Section III, in the form of reports from the regions, deals with certain activities relative to service in municipal utilities. Many of these activities have involved participation by, or the assistance of, members of the Commission's staff.

Engineering and construction activities are discussed in the two sections that follow. Section IV deals with the planning and construction of facilities for the delivery of power. It includes descriptions of the more important construction

### Summary 1952-1961

1953	1954	1955	1956	1957	1958	1959	1960	1961
3,565	4,135	4,530	4,552	4,844	5,761	6,155	6,526	6,734
3,488	3,702	4,229	4,514	4,784	5,139	5,556	5,746	5,949
20,912	22,386	26,555	29,523	31,101	31,450	35,465	37,709	38,212
19,951	20,788	23,258	25,537	27,405	28,382	31,546	32,717	33,861
961	1,598	3,297	3,986	3,696	3,058	3,919	4,992	4,351
18,574*	19,909*	23,888*	26,802*	28,288*	28,599*	32,058	34,317	34,807
136	143	162	183	197	198	213	229	236
1,355	1,469	1,573	1,733	1,931	2,108	2,248	2,361	2,462
184	133	115	173	209	191	154	132	124
1,491	1,653	1,788	2,011	2,255	2,421	2,548	2,660	2,780
1,040	1,162	1,209	1,392	1,573	1,692	1,786	1,844	1,918
15,251	15,785	16,115	16,489	16,717	17,499	17,713	17,831	17,971
41,589	42,540	43,851	44,492	45,375	46,438	47,351	47,896	48,068
19,242	18,750	17,278	18,075	19,597	17,701	15,866	15,179	15,097
332	338	343	350	351	354	354	354	354
1,390	1,467	1,540	1,612	1,674	1,757	1,830	1,881	1,939

\*Revised

projects and statistics relative to these and other facilities for the generation, transformation, and delivery of power. Section V contains reports on the progress of some of the investigations being conducted by members of the Commission's Research Division.

Section VI deals with aspects of employee relations, training, and staff administration. Appendix IV lists Orders in Council, and records legislation pertaining to the Commission's affairs.

A large part of the Report is devoted to aspects of retail service to ultimate customers, especially that provided by the municipal electrical utilities. The commentary on these activities and the statistical tables applicable to them are brought together in a supplement to the Report entitled *Municipal Electrical Service* beginning on page 175. The complete municipal service supplement includes four statements: (1) Statement "A"—balance sheets, (2) Statement "B"—operating statements, (3) Statement "C"—rates, and (4) Statement "D"—other statistical information relating to the municipal systems. As the service rendered by the Commission-owned local systems is comparable to that provided by the municipal utilities, the local systems are included in the statistical summaries in the municipal supplement and are also listed in Statements "C" and "D".

## SECTION I

### OPERATION OF THE SYSTEMS

**T**HE economic trend in Canada which had been downward through most of 1960, turned upward early in 1961. There was, however, no significant evidence of growth in the Commission's loads until late in the first half of 1961. An encouraging upward trend that developed in the third quarter of the year levelled off to some extent in December with the prevailing mild weather. The result was that primary peak requirements in 1961 exceeded those of the previous year by only 3.5 per cent. This was very little greater than the corresponding increase in 1960 of 3.4 per cent.

The dependable peak capacity of the Commission's resources generated and purchased in 1961 was 3.2 per cent greater than the peak capacity of resources in 1960. The increase includes two new units at Richard L. Hearn Generating Station in Toronto, one of which was in service in 1960 but not available at the time of the 1960 peak, two units at Otter Rapids Generating Station on the Abitibi River, and the second of two units at Red Rock Falls Generating Station on the Mississagi River. The effect of these additions was offset to a considerable extent by a downward revision in the dependable capacity of the Niagara River generating stations following a reduction in the amount of water available to Ontario Hydro now that the Power Authority of the State of New York is able to make use of water to which the United States is entitled by international agreement. A further reduction in dependable capacity reflects a temporary limitation in transmission capability affecting delivery from resources on the Abitibi River since deliveries to the system from the 60-cycle unit at Abitibi Canyon Generating Station and from Otter Rapids Generating Station cannot be fully realized until October 1963 when the 460-kv transmission line from Abitibi Canyon Generating Station to Sudbury is scheduled to go in service initially at 230 kv. No new

**POWER SUPPLY STATISTICS—1961**  
(Figures for 1960 and Per Cent Change in Italic Type)

		Southern Ontario System	Northern Ontario Properties		Total
			NORTH- EASTERN DIVISION	NORTH- WESTERN DIVISION	
Resources					
Dependable peak capacity					
—December	kw	5,716,750	420,500	596,500	6,733,750
	kw	5,558,750	371,500	595,900	6,526,150
		2.8%	13.2%	0.1%	3.2%
Requirements					
PRIMARY					
Peak—Annual maximum	kw	4,982,455	553,439	425,270	5,948,817*
	kw	4,772,583	551,661	433,274	5,745,682*
		4.4%	0.3%	—1.8%	3.5%
Energy—Total annual	kwh	27,610,376,454	3,561,305,871	2,690,057,520	33,861,739,845
	kwh	26,321,825,289	3,636,699,913	2,759,000,194	32,717,525,396
		4.9%	—2.1%	—2.5%	3.5%
Loads					
PRIMARY AND SECONDARY					
Peak—Annual maximum	kw	5,344,455	571,029	584,412	6,463,932*
	kw	5,031,545	552,053	574,328	6,157,534*
		6.2%	3.4%	1.8%	5.0%
Energy—Total annual	kwh	31,021,060,331	3,697,971,076	3,493,221,800	38,212,253,207
	kwh	30,547,653,589	3,768,375,431	3,392,853,908	37,708,882,928
		1.5%	—1.9%	3.0%	1.3%
PRIMARY ONLY					
Energy—For use in Ontario					
	kwh	27,318,298,254	3,561,305,871	2,689,678,320	33,569,282,445
	kwh	25,924,170,889	3,636,699,913	2,759,000,194	32,319,870,996
		5.4%	—2.1%	—2.5%	3.9%
—Total annual	kwh	27,610,376,454	3,561,305,871	2,689,678,320	33,861,360,645
	kwh	26,321,728,089	3,636,699,913	2,759,000,194	32,717,428,196
		4.9%	—2.1%	—2.5%	3.5%

\* These annual maxima are the arithmetic sums of the three non-coincident system peaks in December. In the two northern divisions the annual maximum does not necessarily occur in December.

generating resources were placed in service in the Northwestern Division during 1961, but reserves of power in this Division still are above normal.

During 1961, the Commission's generating stations produced a total of 31.1 billion kilowatt-hours, which was 1.9 per cent below the total generated in 1960. The contribution to this total by hydro-electric stations was 30.6 billion kilowatt-hours, down 3 per cent from a year ago. On the other hand, thermal-electric



production at 0.5 billion kilowatt-hours was more than three times the 1960 production. Purchased power reached a total of 7.1 billion kilowatt-hours for an increase of 18.6 per cent over the amount purchased in 1960. The total output generated and purchased rose by 1.3 per cent during the year to a level of 38.2 billion kilowatt-hours. Comparative figures for both years will be found in the table on page 104.

### **Stream-flow and Storage Conditions**

During the early months of the year run-off generally declined in the Southern Ontario System, but stream-flows were maintained by increasing the rate of withdrawal from the storage reservoirs. Following the conclusion of freshet flows towards the end of May, the trend in run-off continued downward through the month of June, but thereafter generally returned to normal.

Water-storage conditions were generally satisfactory except in the Ottawa River watershed where storage had fallen 15 per cent below normal by mid-July and remained at that level until mid-September. Subsequently, above-normal rainfall in the area of the upper Ottawa River resulted in substantially increased run-off which brought storage conditions back to near normal for the balance of the year. Compared with the record of the past ten years, the mean flows of the Niagara, St. Lawrence, and Ottawa Rivers were below their respective ten-year means.

In the Northeastern Division stream-flow and water-storage conditions similar to those in the Southern Ontario System prevailed except that storage was well above normal in the last quarter, a result of generally good flows, and flows of freshet proportion on the Abitibi River during September and October in particular. Freshet flows in the western sector of the Northwestern Division were somewhat below normal because of the lack of snow cover and spring rains. During the remainder of the year lack of rainfall resulted in below-normal flows in the western sector, where run-off into Lac Seul and Lake St. Joseph during the summer and autumn approached the minimum previously recorded. Water storage in this sector was well below normal throughout the year. In the eastern sector heavy rainfall early in September resulted in increased run-off and reservoir storage slightly above normal for the remainder of the year.

### **Licences for the Export of Power**

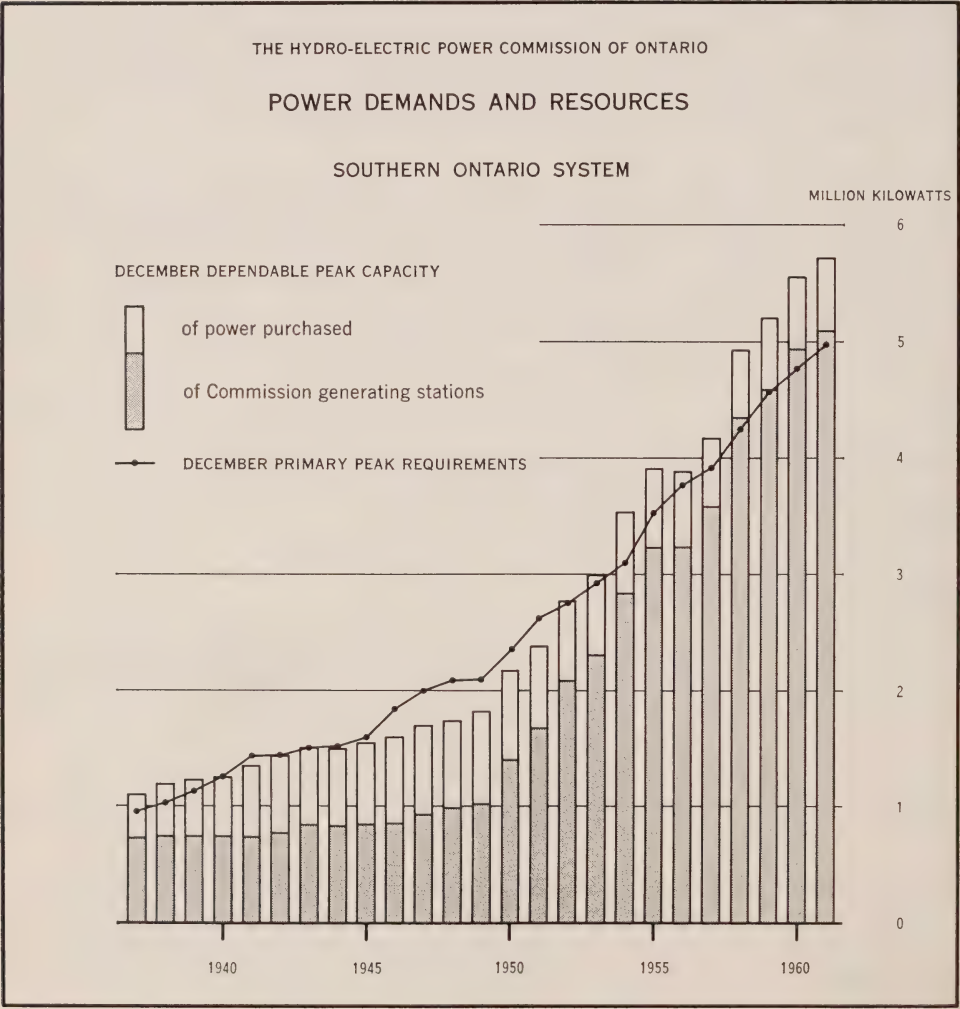
During 1961 the Commission applied under the National Energy Board Act for four licences covering the export of power in the years 1962 to 1965 inclusive. The licences were granted by Order of the Governor General in Council upon the recommendation of the National Energy Board but some reductions in the amounts of interruptible energy that may be exported were imposed, and the termination dates of three of the licences were revised from December 31, 1965 to March 31, 1965.

An amendment to the Excise Tax Act, effective August 31, 1961, is a benefit to the Commission in that excise tax will now be paid on the net transfer of energy and not as heretofore on the gross amount of energy exported by the Commission.

SOUTHERN ONTARIO SYSTEM

Primary peak requirements in the Southern Ontario System reflected improving economic conditions as the growth trend returned to approximately the long-term rate between August and November. The rate of growth slackened, however, in December with the unseasonably mild weather, and the peak demand of 4,982,455 kilowatts registered on December 18 was only 4.4 per cent above the previous December peak.

Production from hydro-electric resources was down 5.3 per cent from the previous year, owing in part to below-normal flows in the eastern part of the system, and in part to the reduction in the amount of Niagara River water available for use in Canada. Production from thermal-electric stations, by contrast, was slightly more than three times the 1960 production. The production of energy for secondary load purposes during 1961 was 19.3 per cent below production in 1960,



and sales of surplus power to the Niagara Mohawk Power Corporation were particularly affected. Since the Corporation can now conveniently obtain power from the Power Authority of the State of New York, it no longer ranks as the major outlet for the Commission's secondary production. The Detroit Edison Company thus became the Commission's principal customer for surplus energy.

Since 1958 when the combined international power development on the St. Lawrence River was placed in service, increasing latitude has been gradually permitted to the power entities in the use of water for peaking purposes on a test basis. In the early stages, beginning in November 1959, variations of from 10,000 cfs above or below stipulated weekly average flow were permitted. The latitude was increased in December 1959 to 20,000 cfs, and in January 1961 again increased to 30,000 cfs above or below weekly average flow. Also beginning in January 1961 and continuing through the non-navigation season, flows in excess of the stipulated weekly average were permitted from Monday to Friday, and the equivalent of this excess flow was ponded over week-ends. An Operations Advisory Committee, established by the power entities and including representatives of five of the groups most affected by these arrangements, makes recommendations regarding any desirable limitations on peaking and ponding. A new Regulation Plan 1958C, formally adopted on January 6, 1962, further provides in the method for the storage of water in Lake Ontario during the spring and early summer and for its release later in the year. A temporary arrangement of a similar kind which was in effect during the summer and fall of 1961 was beneficial, as the present arrangement is, both to navigation and to power production. The continuance of peaking and ponding, and revisions in the Regulation Plan are at the discretion of the St. Lawrence International Board of Control, and the International Joint Commission. Recommendations regarding the Regulation Plan are made by an operating advisory group established by the Board of Control, and similar in constitution to the Committee already mentioned.

A Memorandum of Understanding covering operation and maintenance of the joint works at the St. Lawrence River Power Development was signed on October 17, 1961 by the Commission and the Power Authority of the State of New York. The Memorandum defines joint works, for which all costs of operation and maintenance will be equally shared, and wholly owned works, which are the exclusive responsibility of the respective power entities. In addition to outlining detailed rules and procedures, it establishes a Joint Works Committee to administer the Memorandum.

### **Unit Tripping of Power Sources**

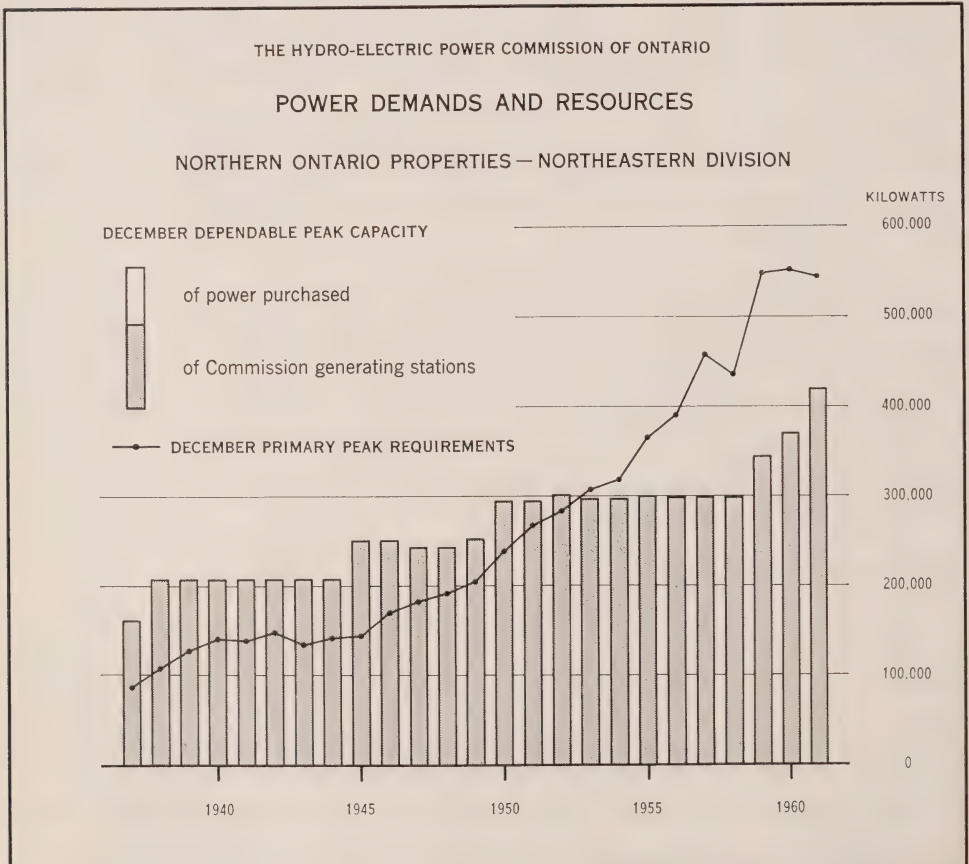
In order to permit the desired transfer of power under normal conditions, and yet limit line loadings to safe values in the event of the loss of transmission capability, automatic unit tripping was first introduced into the Southern Ontario System in the autumn of 1959. Automatic unit tripping is the reduction of generation simultaneously with the automatic removal of faulted transmission lines from service. Its use has since been extended, until in September 1961 it was being applied on all 230-kv circuits entering Cherrywood Switching Station from the east. For example, the operation of protective relays on a circuit will



send a signal by power-line carrier to trip off units at Robert H. Saunders-St. Lawrence Generating Station and thereby reduce output by an amount approximately equivalent to the load of the faulted circuit. This permits the loads on the operating lines to remain relatively unchanged and within the stability limits. A similar result is achieved at certain stations of the Commission's Quebec suppliers through special bus and tripping arrangements. Service to customers is not affected by unit tripping since the temporary reduction of output is compensated for by increased output from other generating stations and by power flow from interconnected systems.

### NORTHERN ONTARIO PROPERTIES

Requirements of primary power in the Northeastern Division registered a seasonal decline from the January peak of 553,439 kilowatts, and during the succeeding four months peak demands were below the corresponding months of the previous year. From then until the month of November there was some evidence of improvement over loads in the previous year, but the peak in the month of December again fell below the corresponding 1960 level. The peak established in January 1961 exceeded the 1960 peak by only 0.3 per cent.





With two units at Otter Rapids Generating Station available in the latter part of the year, and the second unit at Red Rock Falls Generating Station available for the greater part of the year, there was a 17.3 per cent increase in hydro-electric production in 1961, which was largely responsible for a reduction of 35.4 per cent in the net amount of assistance required from the Southern Ontario system.

Among other purchases of energy substantial quantities of surplus energy were purchased during the year from the Great Lakes Power Corporation Limited. At the Corporation's request its system was operated on occasion in parallel with the Commission's system in order to stabilize voltage during the rolling of heavy steel beams at the plant of a large steel company.

Shortly after the Municipality of South River became a cost-contract customer of the Commission in March, the facilities of the South River Power Company were operated in parallel with the Northeastern Division network. The Commission agreed to purchase the output of the Power Company's plant.

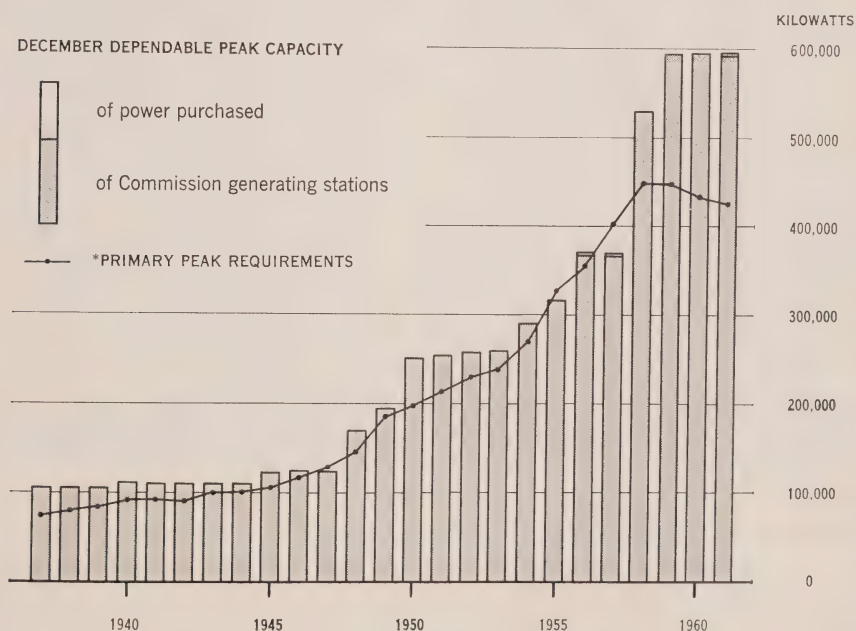
The Commission's Kagawong Generating Station was closed down in July 1961 when essential repairs to operating equipment proved to be uneconomical.

Primary power requirements in the Northwestern Division fell below those of the corresponding months in 1960 for all but the months of November and

# THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## POWER DEMANDS AND RESOURCES

### NORTHERN ONTARIO PROPERTIES — NORTHWESTERN DIVISION



\*Maximum peak recorded between September and December each year.

December, when there were slight increases. The maximum requirement for the year was the November peak of 425,270 kilowatts, but even this was 1.8 per cent below the maximum peak of 1960.

Since the system of the Manitoba Hydro-Electric Board, like the western area of the Commission's Northwestern Division, was affected by poor stream-flows, the Commission was able to dispose of considerably more surplus energy in Manitoba than in the previous year. The credit for power produced in Manitoba from water diverted from Lake St. Joseph was also much higher than in 1960. Arrangements were completed to supply the Marathon Corporation of Canada Limited with turbo-replacement power commencing in March 1961. These were the principal factors contributing to a 26.8 per cent increase in the production of surplus hydro-electric energy.

Repairs to the intake structure, headgate hoist, and cylindrical headgate at Aguasabon Generating Station were completed. The equipment, damaged in the unusual occurrence of December 1, 1960 as described in the 1960 Report, was restored to normal operation by the beginning of December. Since each unit had its own penstock valve, it was possible to operate the generating units throughout the period when repairs were being made. In order to prevent recurrence of the type of damage experienced, a head differential sensing control system has been installed at Aguasabon Generating Station, and also at Silver Falls Generating Station where there was a potential hazard of the same kind.

## **MAINTENANCE OF THE SYSTEMS**

### **Electrical Maintenance**

With a view to maintaining a maximum degree of service security combined with economy in operation, mobile substations were used more extensively during 1961 not only to meet emergency situations but also to permit planned maintenance without interruption of loads. Procedures are also being improved for the rehabilitation of transformers in place, so that equipment outage time can be economically reduced.

No major failures were encountered in stator windings of large rotating machines, but extensive repairs were required to the stator core of a large frequency-changer as a result of heavy circulating currents arising from a failure of insulation on a stacking bolt. Extensive and relatively costly repairs were also required on six rotating units at Sir Adam Beck-Niagara Pumping-Generating Station when failure at the brazed joints in the amortisseur windings resulted in damage to the rotor iron.

While there was no major damage during the year to 230-kv or 115-kv switchgear, one 26-kv breaker was damaged beyond economical repair during an electrical storm.

### **Mechanical Maintenance**

Welding was carried out on several turbines at the Sir Adam Beck-Niagara Generating Station No. 2 and the Pumping-Generating Station. On some turbines, parts particularly vulnerable to pitting were overlaid with stainless steel with a view to reducing outages in the future.

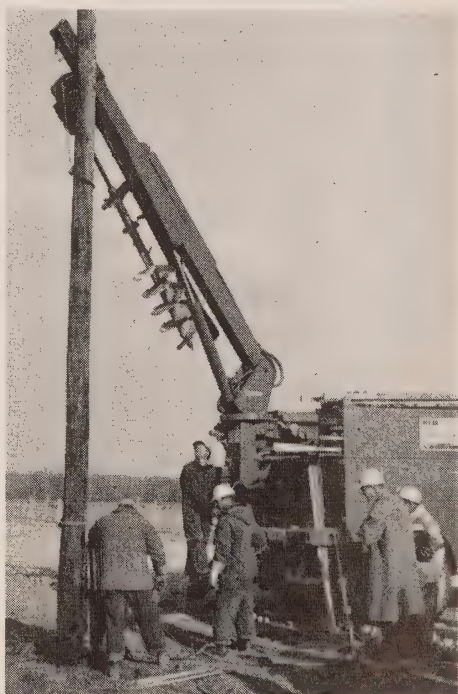
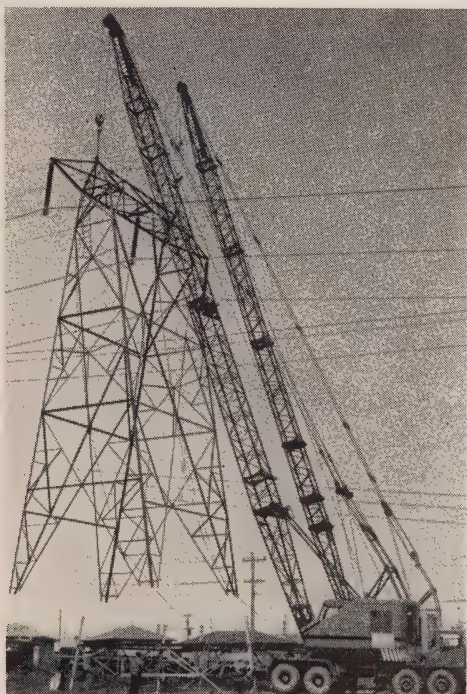
The turbine runner from Silver Falls Generating Station was shipped to the manufacturer for major repairs, and was subsequently returned to service.

### Line Maintenance

With the trend towards greater mechanization for the purpose of achieving improved efficiency in maintenance operations, the Commission expanded its truck fleet by 17 radial-arm, derrick-equipped, line trucks, bringing the total so equipped to 23. Many of these trucks also have auxiliary equipment such as earth augers, pole pullers, and power-operated tampers.

Mobile cranes were used to relocate a number of high-voltage transmission-line towers. The necessity for dismantling the towers was thus eliminated. The moves were required to accommodate road widening and improvement.

Maintenance on underground cables included repair work on the 115-kv cable from Toronto-Leaside Transformer Station to Toronto-Glengrove Transformer Station, which was out of service for approximately a week when a fence post was driven through the cable aluminum sheath. Two months' work was required on the 230-kv cable from Lakeview Generating Station to A. W. Manby



**LINE OPERATIONS**—Left: By the use of two mobile cranes, this 73-foot tower was moved a distance of 40 feet and re-established on a new 10-foot extension without removing the 230-kv conductors. The actual relocation, which was required by road-widening work, took only half an hour. The necessary interruption in service on this 230-kv line for several hours for the preparation and completion of the reconnection would have been much longer under conventional methods.

Right: A regional operations crew is shown using a versatile radial-arm derrick and digger for relocating power lines. The machine bores the new post hole, removes the pole by means of an hydraulic butt puller, moves and resets the pole in its new position up to 12 feet away. Recently, 90 poles on 3 miles of live 8,000-volt line were thus moved without service interruption.



Transformer Station, which had been cut by a power shovel engaged in pipeline installation.

In addition to their regular line patrol and brush-spraying operations, the Commission's helicopters were used for approximately 500 hours of survey work as well as for pole placement and other line construction operations. Experimental stringing of ground cable on a 115-kv, wood-pole transmission line was successfully carried out by helicopter. A helicopter of a somewhat larger model than those previously used was purchased by the Commission for line construction work.

During the year the helicopter fleet patrolled over 109,000 miles of transmission lines and sprayed approximately 5,100 acres of high-voltage transmission-line right of way.

More than 10,500 transmission, distribution, and communication poles were replaced because they were considered insufficiently strong to ensure reliable service. Nearly 200 steel towers on older transmission lines were cleaned and painted as part of the progressive maintenance program.

### **Forestry**

The problem of dealing with Dutch elm disease, which has already killed thousands of trees in Ontario, has become acute. Special tree removal crews have been established in the Central and Western Regions for the purpose of removing from the Commission's power and communication circuits the hazards due to this infestation. Since trees killed by the disease deteriorate rapidly in strength, special equipment is being used to eliminate the hazard of climbing them.

Spraying operations for the control of woody growth on rights of way continued at approximately the same level as in the past three years—a total of 45,500 acres being treated including the 5,100 sprayed from the air. Tree pruning and removal were carried out as required on 13,100 miles of transmission and distribution line as well as on about 1,100 miles of newly constructed or municipally owned lines.

In the continuing reforestation program more than 125,000 seedling trees were planted on approximately 150 acres of Commission property in the Eastern, Northeastern, and Northwestern Regions.



## SECTION II

### FINANCE

**T**HE general administrative bases upon which service was provided in 1961 to the Southern Ontario System and the Northern Ontario Properties are outlined on page 1 of the Foreword to this Report. The balance sheets and operating statements for the two systems are included in this section together with a statement of funded debt and a schedule of Provincial advances outstanding. Supporting schedules are to be found in Appendix II beginning, for the Southern Ontario System on page 110, and for the Northern Ontario Properties on page 144. The two statements of the allocation of the cost of primary power in Appendix II itemize for each cost-contract municipality its share of the total costs incurred and the amount billed under its interim rate. The financial operating results for the municipal electrical utilities are reported in the municipal service supplement included at the end of the Report.

With the passage early in 1962 of "An Act to effect the Consolidation of All Works and Systems of The Hydro-Electric Power Commission of Ontario", the financial basis upon which service is provided has changed. Effective January 1, 1962, the former Southern Ontario System and the Northern Ontario Properties were amalgamated financially, and will be known henceforth as the Amalgamated Systems. Appendix II of this Report beginning on page 109, in addition to the usual supporting schedules and statements applicable to financial operations in 1961, presents the balance sheet and certain supporting schedules for the Amalgamated Systems as at the effective date of merger on January 1, 1962.

#### **Rate Review**

During 1961 the Commission was generally successful in its continuing efforts to stabilize power rates against inflationary pressures. These efforts and the effect of matured sinking fund made it possible to reduce the 1961 interim rates for approximately half the cost municipalities while the majority of others experienced no change. Rates to a number of industrial customers served directly by the Commission were increased as their contracts came up for review. Within the Rural

Power District the previous farm service rate schedules were replaced with a new standard structure designed to promote the sale of electricity. An adjustment in the rural street-lighting rates which was necessary at the end of 1961 resulted in both decreases and increases but in little net change in revenues.

A review of the adequacy of existing interim rates in meeting the anticipated 1962 costs indicated that no change appeared to be necessary for the majority of cost-contract municipalities and that the minor increases and decreases for the few remaining municipal utilities were approximately equivalent, the most significant increases being to cost municipalities in the former Thunder Bay System.

### Electronic Data Processing

The applications of electronic data processing have been further increased during the past year, affording particular evidence of the worth of novel approaches both in the solution of mathematical problems and in computer programming. The amount of computer time spent on engineering and scientific problems has increased at a rate slightly in excess of what might normally have been expected. In conjunction with a study being carried on in operations research, progress is being made towards the development of a scheme for system-wide automatic control for the optimum scheduling of generating resources.

During 1961 the program for manpower data processing was completed, and the system is now operating throughout the organization, though some technical problems still remain to be solved.



OTTER RAPIDS GENERATING STATION — The lights at the project seem to accentuate the surrounding gloom of the northern winter night. At this construction site in the northern part of the province darkness closes in as early as 4 PM in the depth of winter.

**COMBINED SYSTEMS—1961****Operating Results**

Gross revenue from the sale of primary power and energy amounted to \$238,502,193 in 1961, exceeding that in 1960 by \$7,520,249, or 3.3 per cent. This revenue was derived from municipal electrical utilities and interconnected systems purchasing power for resale, from industrial customers served directly by the Commission, and from customers served by Commission-owned local and rural distribution facilities. The 3.3 per cent gain, though reflecting a rising trend of the economy as it emerged from a period of recession early in the year and picked up markedly in the third and fourth quarters, is less than the long-term average.

The cost of providing service was \$235,448,876, an increase of \$6,811,942 or 3.0 per cent over cost in 1960. An increase in fixed costs, and a decline in revenue from secondary energy sales which is applied as an offset against costs, were the main factors contributing to the higher costs in 1961. They were offset to some extent by a net withdrawal from the stabilization of rates and contingencies reserve of \$2,906,583 as compared with a net provision in 1960 of \$4,483,759. An additional factor in offsetting higher costs was an increase of \$2,335,597 in the relief for matured sinking fund. The demand for electric power expressed in terms of the average of monthly peak loads rose by 4.7 per cent over that of 1960. As this is greater than the 3 per cent increase in gross costs referred to previously, the average cost per kilowatt of supplying primary power to all customers was down from the previous year.

The excess of revenue over the cost of providing service amounting to \$3,053,317 was distributed as follows:

Credited to cost-contract municipalities—

Southern Ontario System .....	\$2,727,337
Northern Ontario Properties .....	78,291

Debited to Rural Power District Stabilization of Rates and Contingencies Reserve, Southern Ontario System .....

330,874

Transferred to Statement of Surplus, Northern Ontario Properties ..

578,513

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\$3,053,317

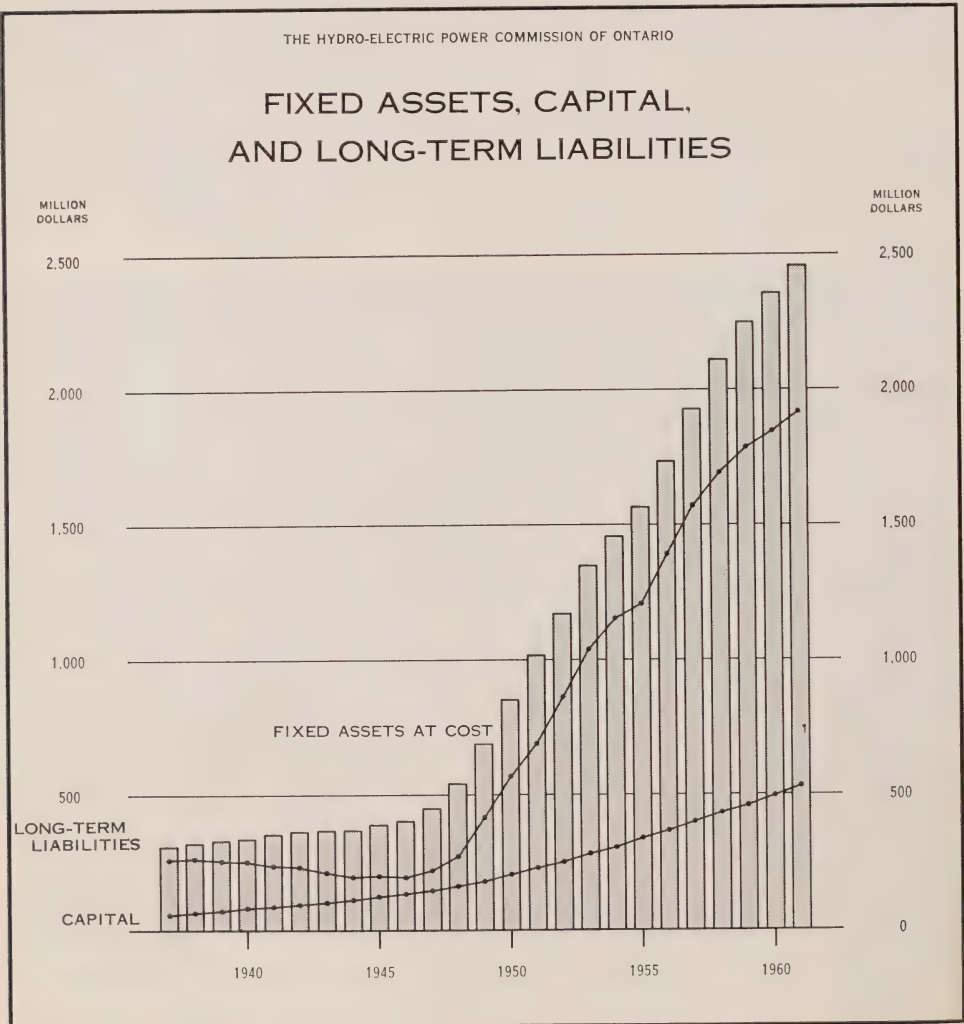
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**Financial Summary**

The Commission's total assets at December 31, 1961, after eliminating the inter-system account, were \$2,779,738,127 as compared with \$2,660,258,017 at December 31, 1960. The long-term debt at December 31, 1961 was \$1,918,285,085, an increase of \$74,228,777 during the year. Capital of \$530,846,480 at the end of 1961 comprised \$414,610,127 contributed through sinking fund for the purpose of retiring long-term debt, \$115,917,808 in Provincial contributions for assistance in construction of rural distribution facilities, and \$318,545 of surplus arising from the supply of power to customers in northern Ontario served for the account of the Province.

The gross expenditure on fixed assets during 1961 was, with the single exception of 1955, the lowest in the last thirteen years and amounted to \$123,656,380 of which 63.0 per cent was for power generating facilities. The extension or improvement of rural distribution facilities required the expenditure of \$18,425,162, or 14.9 per cent of the total gross expenditure on fixed assets, while transmission facilities accounted for 9.3 per cent, transformation for 8.6 per cent, and other facilities, including administrative and service buildings and equipment, for the balance of 4.2 per cent. After allowing for sales and retirements amounting to \$22,897,919, there was a net increase of \$100,758,461 in the investment in fixed assets, bringing the total to \$2,461,609,257. This total includes \$274,324,176 in rural fixed assets. Accumulated depreciation provided on fixed assets amounted to \$305,253,151 at December 31, 1961.

The capital construction program, reflecting current economic trends, was maintained at a level commensurate with the Commission's obligations with respect





to operations and service. Borrowing was restricted in 1961 to \$100 million, the same as in 1960.

The Reserve for Stabilization of Rates and Contingencies was \$145,192,825 at December 31, 1961, down \$1,478,880 from the 1960 level following withdrawals to stabilize rates and to offset retroactive charges applicable to certain classes of equipment for which service lives were revised during the year. The Commission maintains this reserve as an insurance fund for the protection of the municipal electrical utilities, rural customers, and direct industrial customers alike, against such contingencies as sharp swings in economic activity, unfavourable stream-flows at hydro-electric generating stations, physical catastrophe, and risk of foreign exchange loss at maturity of bonds payable in United States funds. The reserve is not meant to be used for absorbing normal increases in costs.

The funds required by the Commission for capital investment and other purposes in 1961 were obtained from sources as shown in the following table:

#### STATEMENT OF SOURCE AND APPLICATION OF FUNDS

for the Year Ended December 31, 1961

	\$ '000 omitted
<b>FUNDS PROVIDED:</b>	
From issue of \$100 million of bonds, net of discount and bond issue expense .....	97,084
From operations—	
Charges to cost of power not requiring an outlay of cash:	
Net provision and interest added to reserves for stabilization of rates and contingencies, and sinking fund, and to accumulated depreciation .....	71,843
Provision for frequency standardization .....	9,807
Miscellaneous .....	2,973
Total .....	84,623
Total .....	181,707
<b>FUNDS APPLIED:</b>	
Expenditures on fixed assets, \$123,656,000 less proceeds from sales, etc.	113,937
Retirement of Commission bonds and repayment of Provincial advances .....	24,632
Purchases of general and sinking fund investments, less proceeds from sales and maturities .....	16,792
Expenditures on nuclear research .....	1,643
Increases in inventories and work orders .....	2,039
Miscellaneous .....	2,542
Net increase in working capital .....	20,122
Total .....	181,707

#### OPERATING RESULTS BY SYSTEMS—1961

##### Southern Ontario System

The cost of providing service in 1961, after a net withdrawal of \$2,835,225 from the Stabilization of Rates and Contingencies Reserve, amounted to \$194,555,672, an increase of 3.3 per cent over total costs in 1960, which in that year included the provision of \$4,856,449 for stabilization of rates and contingencies. Gross revenue from the sale of primary power and energy at \$196,952,185 was up by 3.2 per cent compared with revenue in 1960. Revenue from the sale of

secondary electric energy applied as an offset against cost declined by \$5,108,838 or 63.2 per cent, to a total of \$2,973,744, of which \$2,342,098 was derived from 60-cycle export and \$631,646 from other secondary sales. The gross revenue figure and the revenue from secondary sales together apply to the 28,286,973,573 kilowatt-hours which are the Southern Ontario System's share of the total Commission sales, wholesale and retail, as shown in the table on pages 106 and 107.

Operating costs, including the cost of power purchased, increased by 3.8 per cent over those in 1960. Interest charges were up by 4.5 per cent over those in 1960 after allowing for interest relief in respect of matured sinking funds. Frequency standardization charges were 7.5 per cent down from 1960, while depreciation charges were up by 14.9 per cent. The net provision for the retirement of long-term debt exceeded that in 1960 by 2.0 per cent. The net interchange with the Northern Ontario Properties decreased by 35.4 per cent in terms of energy, reducing the credit to the Southern Ontario System by \$1,255,710 or 27.9 per cent from that of 1960. The balance of the change in the cost of providing service arose from the decline in secondary energy sales and the adjustments to costs for rate stabilization to which reference has already been made.

### Northern Ontario Properties

The cost of providing service to all customers in the Northern Ontario Properties totalled \$40,893,204 in 1961 after a net withdrawal of \$71,358 from the



**FIRST COAL DELIVERY AT LAKEVIEW GENERATING STATION** — In May 1961, the first deliveries of coal were made to the pile which will eventually store up to 2.5 million tons. The coal-handling installations will ultimately be capable of moving 4,000 tons per hour to the coal-pile from self-unloading vessels at the docks, and 2,000 tons per hour from the coal-pile to the bunkers.

Reserve for Stabilization of Rates and Contingencies. This was 1.3 per cent greater than the comparable cost in 1960 when the net withdrawal from the Stabilization of Rates Reserve amounted to \$372,690. Revenue from the sale of secondary electric energy applied as an offset against cost amounted to \$1,564,338, an increase of 41.1 per cent over the corresponding figure for 1960. Gross revenue from the sale of primary power and energy amounted to \$41,550,008, an increase of 3.6 per cent over the 1960 revenue despite a decline in the average of the monthly peak loads. This was due principally to the full-year effect of a \$3.50 per kilowatt rate increase to direct industrial customers introduced towards the end of 1960. The gross revenue figure and the revenue from secondary sales together apply to the 6,519,699,936 kilowatt-hours which are the Northern Ontario Properties' share of the total Commission sales, wholesale and retail, as shown in the table on pages 106 and 107.

Operating costs, including the cost of power purchased, showed an increase of 0.2 per cent over 1960 costs. Interest charges were higher by 10.6 per cent after allowing for interest relief in respect of prepaid and matured sinking funds. Depreciation charges were 7.1 per cent higher than in 1960, and the net provision of funds for the retirement of long-term debt exceeded that in 1960 by 5.8 per cent. Partly offsetting these increases was a decline of 27.9 per cent in the cost of interchange of power with the Southern Ontario System and of 6.5 per cent in the charges for frequency standardization. The balance of the change in the cost of providing service arose from an increase in secondary energy sales and a reduction in withdrawals from the Reserve for Stabilization of Rates and Contingencies, to which reference was made earlier in the text.



## THE HYDRO-ELECTRIC POWER

SOUTHERN  
BALANCE SHEET

## ASSETS

## FIXED ASSETS AT COST

In service .....	\$ 1,931,060,201	
Under construction .....	52,049,680	
	<u>\$ 1,983,109,881</u>	
Less accumulated depreciation .....	249,829,995	
		<u>\$ 1,733,279,886</u>

## FREQUENCY STANDARDIZATION:

Cost of completed standardization after charging \$167,224,494 to reserves and cost of power—balance to be written off in future years .....	178,864,517
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## CURRENT ASSETS:

Cash .....	\$ 40,652,920	
Temporary investments in government and government-guaranteed securities, at market value .....	16,110,585	
Accounts receivable .....	<u>28,073,734</u>	
		84,837,239

## INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND CONSTRUCTION:

Coal at cost .....	\$ 12,888,610	
Other materials and supplies at cost .....	11,564,634	
Tools and equipment at cost less depreciation .....	<u>10,879,181</u>	
		35,332,425

## DEFERRED CHARGES AND OTHER ASSETS:

Debenture discount and expense less amounts written off ..	\$ 16,649,003	
Deferred work orders and other assets .....	6,332,913	
Customers' securities on deposit .....	<u>192,150</u>	
		23,174,066

## RESERVE FUND INVESTMENTS:

Investments held at amortized cost plus accrued interest on special reserve investments (approximate market value \$255,951,000)—		
Special reserves .....	\$ 131,195,847	
General reserve .....	115,229,822	
Sinking fund .....	<u>15,666,744</u>	
		262,092,413
		<u>\$ 2,317,580,546</u>

## Auditors' Report

We have examined the balance sheet of the Southern Ontario System of The Hydro-Electric Power Commission of Ontario as at December 31, 1961 and the statement of operations for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statement of operations present fairly the financial position of the Southern Ontario System of the Commission as at December 31, 1961 and the results of the operations for the year ended on that date.

CLARKSON, GORDON &amp; CO.

Chartered Accountants.

Toronto, Canada,  
June 29, 1962.



## COMMISSION OF ONTARIO

## ONTARIO SYSTEM

AS AT DECEMBER 31, 1961

## LIABILITIES, RESERVES, AND CAPITAL

## LONG-TERM LIABILITIES (including \$11,007,810 maturing in 1962):

Funded debt (at par of exchange).....	\$ 1,905,826,000	
Less—issued to finance Northern Ontario Properties, a separate trust operated by the Commission.....	346,272,545	
	<u>\$ 1,559,553,455</u>	
Advances from the Province of Ontario (at par of exchange).....	\$13,662,357	
Less advances for Northern Ontario Properties.....	2,429,902	
	<u>11,232,455</u>	
	<u>\$ 1,570,785,910</u>	
Less exchange discount (net) incurred on funded debt payable in United States funds.....	668,105	
	<u>\$ 1,570,117,805</u>	

## CURRENT LIABILITIES:

Accounts and payrolls payable and accrued charges.....	\$ 20,732,683	
Customers' deposits.....	759,619	
Interest accrued on long-term liabilities.....	22,377,062	
Northern Ontario Properties—current account.....	10,689,058	
	<u>54,558,422</u>	

## SPECIAL RESERVES:

Pension fund.....	\$ 128,278,854	
Employer's liability insurance fund.....	3,098,399	
Employees' savings and insurance fund.....	301,035	
	<u>131,678,288</u>	

## GENERAL RESERVE:

Stabilization of rates and contingencies.....	126,097,635	
---	-------------	--

## CAPITAL:

Sinking fund reserve:		
Represented by—		
Funded debt and Provincial advances retired through sinking funds.....	\$323,942,663	
Sinking fund investments.....	15,664,644	
	<u>\$ 339,607,307</u>	
Contributed capital:		
Province of Ontario, assistance for rural construction...	95,521,089	
	<u>435,128,396</u>	
	<u>\$ 2,317,580,546</u>	

NOTE: Commitments under uncompleted contracts for the construction of fixed assets, approximately \$50,000,000.

## NORTHERN ONTARIO

Held and Operated by The Hydro-Electric Power Commission of Ontario in

## BALANCE SHEET

## ASSETS

## FIXED ASSETS AT COST:

In service.....	\$ 423,758,182	
Under construction.....	54,741,194	
	<u>\$ 478,499,376</u>	
Less accumulated depreciation.....	55,423,156	
	<u></u>	\$ 423,076,220

## FREQUENCY STANDARDIZATION:

Cost of completed standardization after charging \$1,403,995 to cost of power—balance to be written off in future years....		3,336,883
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## CURRENT ASSETS:

Cash.....	\$ 305,612	
Accounts receivable.....	5,935,119	
The Hydro-Electric Power Commission of Ontario—current account.....	10,689,058	
	<u></u>	16,929,789

INVENTORIES HELD FOR OPERATION, MAINTENANCE, AND  
CONSTRUCTION:

Materials and supplies at cost.....	\$ 800,515	
Tools and equipment at cost less depreciation.....	507,236	
	<u></u>	1,307,751

## DEFERRED CHARGES AND OTHER ASSETS:

Debiture discount and expense less amounts written off.....	\$ 4,280,604	
Account receivable in annual instalments 1962-1989.....	1,722,928	
Customers' securities on deposit.....	1,540,762	
Deferred work orders and other assets.....	555,881	
	<u></u>	8,100,175

## RESERVE FUND INVESTMENTS:

Investments held for reserves at amortized cost (approximate market value \$17,560,000)—		
General reserve.....	\$ 14,832,943	
Sinking fund.....	5,262,878	
	<u></u>	20,095,821
		<u>\$ 472,846,639</u>

## Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost, as at December 31, 1961, and the statements of operations and surplus for the year ended on that date. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet and statements of operations and surplus present fairly the financial position of the Northern Ontario Properties as at December 31, 1961 and the results of the operations for the year ended on that date.

CLARKSON, GORDON &amp; CO.

Chartered Accountants.

Toronto, Canada,  
June 29, 1962.

## PROPERTIES

### Trust for the Province of Ontario and Municipalities Supplied with Power at Cost AS AT DECEMBER 31, 1961

#### LIABILITIES, RESERVES, AND CAPITAL

##### LONG-TERM LIABILITIES (including \$3,225,856 maturing in 1962):

Funded debt (at par of exchange) . . . . .	\$ 346,272,545	
Advances from the Province of Ontario (at par of exchange) . . . .	2,429,902	
	<hr/>	
	\$ 348,702,447	
Less exchange discount (net) incurred on funded debt payable in United States funds . . . . .	535,167	
	<hr/>	\$ 348,167,280
Representing the portion of the funded debt and advances from the Province of Ontario owing by The Hydro-Electric Power Commission of Ontario, issued to finance Northern Ontario Properties.		

##### CURRENT LIABILITIES:

Accounts and payrolls payable and accrued charges . . . . .	\$ 1,696,936	
Customers' deposits . . . . .	3,862,508	
Interest accrued on long-term liabilities . . . . .	4,306,641	
	<hr/>	9,866,085

##### GENERAL RESERVE:

Stabilization of rates and contingencies . . . . .	19,095,190
--	------------

##### CAPITAL:

Sinking fund reserve:		
Province of Ontario . . . . .	\$ 59,442,367	
Municipalities supplied with power at cost . . . .	15,560,453	
	<hr/>	\$ 75,002,820
Represented by—		
Funded debt and Provincial advances retired through sinking funds . . . . .	\$ 69,749,170	
Sinking fund investments . . . . .	5,253,650	
	<hr/>	\$ 75,002,820
Contributed capital:		
Province of Ontario, assistance for rural construction . . . . .	20,396,719	
Surplus arising from supply of power to customers served for the account of the Province of Ontario . . . . .		
	318,545	
	<hr/>	95,718,084
		<hr/>
		\$ 472,846,639

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## SOUTHERN ONTARIO SYSTEM

STATEMENT OF OPERATIONS  
for the Year Ended December 31, 1961

	Power System	Rural Power District	Total
	\$	\$	\$
<b>COST OF PRIMARY POWER:</b>			
Cost of power purchased.....	12,922,870	.....	12,922,870
Operation, maintenance, and administrative expenses.....	53,830,068	13,039,619	66,869,687
Interest (including interest on long-term liabilities and reserves, less interest earned on invest- ments).....	64,583,199	4,947,741	69,530,940
Frequency standardization:			
Interest.....	7,242,368	.....	7,242,368
Portion of cost written off.....	9,683,567	.....	9,683,567
Depreciation.....	15,126,023	7,030,676	22,156,699
Sinking fund provision—contribution to system capital.....	17,012,676	1,367,584	18,380,260
	180,400,771	26,385,620	206,786,391
Interchange of power with Northern Ontario Properties.....	3,247,989	.....	3,247,989
Sale of 60-cycle secondary export energy.....	2,342,098	.....	2,342,098
Sale of other secondary energy.....	631,646	.....	631,646
Credit resulting from matured sinking funds:			
Interest.....	2,512,378	.....	2,512,378
Principal.....	661,383	.....	661,383
Net withdrawal from stabilization of rates reserve	2,835,225	.....	2,835,225
	168,170,052	26,385,620	194,555,672
Net cost of power supplied to Rural Power District.....	20,988,302	20,988,302	.....
Total costs, after net withdrawal from stabilization of rates reserve.....	147,181,750	47,373,922	194,555,672
<b>AMOUNTS BILLED FOR PRIMARY POWER:</b>			
Municipalities (at interim rates).....	126,031,436	.....	126,031,436
Direct industrial customers and interconnected systems.....	23,767,234	.....	23,767,234
Local distribution system customers.....	110,467	.....	110,467
Rural customers.....	.....	47,043,048	47,043,048
Total.....	149,909,137	47,043,048	196,952,185
Excess or deficiency of amounts billed over cost.....	2,727,387	330,874	2,396,513
Credited to municipalities on annual adjustment.....	2,727,387	.....	2,727,387
Transferred to stabilization of rates reserve.....	.....	330,874	330,874



## NORTHERN ONTARIO PROPERTIES

*Held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario and municipalities supplied with power at cost*

**STATEMENT OF OPERATIONS  
for the Year Ended December 31, 1961**

	Customers served for the account of the Province of Ontario			Municipalities supplied with power at cost	Total
	Rural Power District	Other customers	Total		
	\$	\$	\$	\$	\$
<b>COST OF PRIMARY POWER:</b>					
Cost of power purchased.....		818,661	818,661		818,661
Operation, maintenance and administrative expenses.....	2,025,847	13,210,199	15,236,046		15,236,046
Interest (including interest on long-term liabilities and reserves, less interest earned on investments).....	807,560	14,609,808	15,417,368		15,417,368
Frequency standardization:					
Interest.....		172,722	172,722		172,722
Portion of cost written off.....		123,506	123,506		123,506
Depreciation.....	1,175,715	3,122,257	4,297,972		4,297,972
Stabilization of rates and contingencies provision.....		898,858	898,858		898,858
Sinking fund provision—contribution to system capital.....	221,120	3,720,636	3,941,756		3,941,756
	4,230,242	36,676,647	40,906,889		40,906,889
Interchange of power with Southern Ontario System.....		3,247,989	3,247,989		3,247,989
Sale of secondary energy.....		1,564,338	1,564,338		1,564,338
Credit resulting from prepaid and matured sinking funds:					
Interest.....		529,363	529,363		529,363
Principal.....		197,757	197,757		197,757
	4,230,242	37,633,178	41,863,420		41,863,420
Cost of power to municipalities supplied at cost.....		6,419,217	6,419,217	6,419,217	
Cost of power supplied to Rural Power District.....	3,176,157	3,176,157			
Withdrawals from stabilization of rates reserve.....	344,524		344,524	625,692	970,216
Total costs, including provision for and withdrawals from stabilization of rates reserve.....	7,061,875	28,037,804	35,099,679	5,793,525	40,893,204
<b>AMOUNTS BILLED FOR PRIMARY POWER:</b>					
Municipalities supplied with power at cost (at interim rates).....				5,871,816	5,871,816
Fixed-rate municipalities.....		215,205	215,205		215,205
Direct industrial, and other customers.....		25,295,147	25,295,147		25,295,147
Local distribution system customers.....		3,250,803	3,250,803		3,250,803
Rural customers.....	6,917,037		6,917,037		6,917,037
Total.....	6,917,037	28,761,155	35,678,192	5,871,816	41,550,008
Excess or deficiency of amounts billed over cost.....	144,838	723,351	578,513	78,291	656,804
Credited to municipalities on annual adjustment.....				78,291	78,291
Transferred to statement of surplus.....			578,513		578,513

**Statement of Surplus for the Year Ended December 31, 1961**

Balance at debit January 1, 1961.....	\$ 259,968
Add net surplus from operations for the year ended December 31, 1961.....	578,513
Balance at credit December 31, 1961.....	\$ 318,545

THE HYDRO-ELECTRIC POWER

FUNDED DEBT AS AT

Date of maturity	Callable on or after	Date of issue	Interest rate
PAYABLE IN CANADIAN FUNDS— <i>Guaranteed as to principal and interest by the Province of Ontario:</i>			
February 15, 1962	.....	February 15, 1957	per cent 4¾
March 1, 1963	March 1, 1961	March 1, 1948	3
March 1, 1963	March 1, 1962	March 1, 1955	3
October 15, 1963	.....	October 15, 1958	4
May 15, 1964	.....	November 15, 1957	5
May 15, 1964	May 15, 1962	May 15, 1954	3
July 2, 1964	July 2, 1960	July 2, 1948	3
October 15, 1964	October 15, 1963	October 15, 1956	4½
April 1, 1965	April 1, 1964	April 1, 1957	5
December 15, 1965	December 15, 1963	December 15, 1948	3
January 15, 1966	January 15, 1964	January 15, 1956	3¾
March 1, 1966	March 1, 1965	March 1, 1958	4
May 1, 1966	May 1, 1964	May 1, 1951	3½
January 15, 1967	January 15, 1965	January 15, 1952	4
March 15, 1967	March 15, 1964	March 15, 1953	4¼
April 1, 1967	April 1, 1965	April 1, 1949	3
April 1, 1967	April 1, 1964	April 1, 1947	2¾
November 1, 1967	November 1, 1964	November 1, 1952	4¼
November 1, 1967	November 1, 1964	November 1, 1952	4¼
January 15, 1968	January 15, 1966	July 15, 1949	3
April 15, 1968	April 15, 1966	April 15, 1952	4
October 1, 1968	October 1, 1965	October 1, 1947	2¾
July 1, 1969	.....	July 1, 1959	5¾
July 15, 1969	July 15, 1966	July 15, 1953	4¼
July 15, 1969	July 15, 1966	July 15, 1953	4¼
November 1, 1969	November 1, 1967	November 1, 1949	3
January 1, 1970	.....	January 1, 1930	4¾
February 15, 1970	February 15, 1968	February 15, 1960	6
April 1, 1970	April 1, 1968	April 1, 1950	3
July 15, 1970	.....	July 15, 1960	5¼
October 15, 1970	October 15, 1969	October 15, 1958	4½
February 15, 1971	.....	February 15, 1961	5¼
June 1, 1971	June 1, 1961	June 1, 1946	2¾
November 15, 1971	.....	November 15, 1961	4¾
June 15, 1973	June 15, 1971	June 15, 1950	3
July 15, 1974	July 15, 1972	July 15, 1956	4
October 15, 1974	October 15, 1972	October 15, 1956	4½
August 15, 1975	August 15, 1972	February 15, 1957	4¾
January 15, 1976	January 15, 1974	January 15, 1956	4
November 15, 1976	November 15, 1974	November 15, 1957	5
March 1, 1977	March 1, 1975	March 1, 1955	3½
April 1, 1977	April 1, 1974	April 1, 1957	5
March 1, 1978	March 1, 1976	March 1, 1958	4½
October 15, 1978	October 15, 1976	October 15, 1958	5
May 15, 1979	May 15, 1974	May 15, 1954	3½
July 1, 1979	.....	July 1, 1959	5¾
October 15, 1979	October 15, 1974	October 15, 1954	3½
February 15, 1980	February 15, 1978	February 15, 1960	6
July 15, 1980	July 15, 1978	July 15, 1960	5½
February 15, 1981	February 15, 1979	February 15, 1961	5½
November 15, 1983	November 15, 1980	November 15, 1961	5¼

## COMMISSION OF ONTARIO

DECEMBER 31, 1961

Principal outstanding December 31, 1961		
Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
8,367,500	2,990,000	11,357,500
22,324,000	7,343,000	29,667,000
22,651,000	.....	22,651,000
12,928,000	6,700,000	19,628,000
3,584,500	9,598,000	13,182,500
12,736,500	902,000	13,638,500
23,884,000	13,371,500	37,255,500
12,952,500	.....	12,952,500
15,688,500	1,699,000	17,387,500
42,567,000	.....	42,567,000
10,407,500	1,655,500	12,063,000
29,401,000	5,737,500	35,138,500
21,912,500	4,450,000	26,362,500
41,887,000	.....	41,887,000
31,991,500	.....	31,991,500
9,823,500	31,674,000	41,497,500
10,410,455	3,916,545	14,327,000
17,409,500	1,812,000	19,221,500
29,532,500	.....	29,532,500
36,143,000	6,275,000	42,418,000
42,799,500	.....	42,799,500
13,450,000	5,800,000	19,250,000
10,000,000	3,000,000	13,000,000
31,971,500	.....	31,971,500
23,114,500	.....	23,114,500
37,800,000	11,433,000	49,233,000
10,339,500	.....	10,339,500
11,200,000	4,800,000	16,000,000
47,578,000	5,300,000	52,878,000
3,800,000	1,600,000	5,400,000
3,700,000	1,600,000	5,300,000
3,700,000	1,600,000	5,300,000
13,745,000	4,290,000	18,035,000
3,600,000	3,600,000	7,200,000
52,000,000	2,300,000	54,300,000
42,591,000	7,000,000	49,591,000
26,592,500	.....	26,592,500
25,063,000	11,740,000	36,803,000
42,500,000	7,500,000	50,000,000
10,875,000	25,130,000	36,005,000
26,200,000	13,000,000	39,200,000
73,262,000	7,660,500	80,922,500
30,080,000	6,400,000	36,480,000
32,900,000	16,300,000	49,200,000
31,500,000	3,500,000	35,000,000
28,000,000	9,000,000	37,000,000
41,975,000	8,000,000	49,975,000
23,800,000	10,200,000	34,000,000
31,200,000	13,385,000	44,585,000
31,300,000	13,400,000	44,700,000
21,400,000	21,400,000	42,800,000
1,244,638,455	317,062,545	1,561,701,000

THE HYDRO-ELECTRIC POWER  
FUNDED DEBT AS AT

Date of maturity		Callable on or after		Date of issue		Interest rate	
PAYABLE IN UNITED STATES FUNDS— <i>Held by Province of Ontario and having terms identical with</i>							
March	15, 1962	March	15, 1959	March	15, 1954	2.70	
March	15, 1963	March	15, 1959	March	15, 1954	2.75	
March	15, 1964	March	15, 1959	March	15, 1954	2.80	
May	15, 1971	May	15, 1956	May	15, 1951	3¼	
September	1, 1972	September	1, 1956	September	1, 1951	3¼	
February	1, 1975	February	1, 1958	February	1, 1953	3¼	
November	1, 1978	November	1, 1958	November	1, 1953	3⅝	
March	15, 1980	March	15, 1959	March	15, 1954	3⅞	
May	15, 1981	May	15, 1961	May	15, 1956	3⅞	
February	1, 1984	February	1, 1969	February	1, 1959	4¾	
Total funded debt (at par of exchange).....							

Summary of changes in funded debt

Outstanding at January 1, 1961.....	
Less redemptions during year.....	
Add new bond issues during year.....	
Outstanding at December 31, 1961.....	

ADVANCES FROM THE PROVINCE OF

*Annuity bonds repayable to the Province in accordance with the terms of Province*

Date of maturity		Interest rate
		per cent
May	15, 1962-1968.....	4
May	15, 1962-1970.....	4½
January	15, 1962-1971.....	4½
June	1, 1962-1971.....	4
Total advances (at par of exchange).....		

Summary of changes in advances from the Province

Balances of advances at January 1, 1961.....	
Less repayments during year.....	
Balances of advances at December 31, 1961.....	



## COMMISSION OF ONTARIO

## DECEMBER 31, 1961—Concluded

Principal outstanding December 31, 1961		
Southern Ontario System	Northern Ontario Properties	Total
<i>issues sold in the United States by the Province of Ontario on behalf of the Commission:</i>		
1,419,000		1,419,000
2,539,000	.....	2,539,000
2,504,000	.....	2,504,000
46,351,000	2,890,000	49,241,000
42,850,000	.....	42,850,000
47,696,000	.....	47,696,000
43,966,000	5,000,000	48,966,000
29,920,000	.....	29,920,000
41,070,000	3,320,000	44,390,000
56,600,000	18,000,000	74,600,000
314,915,000	29,210,000	344,125,000
1,559,553,455	346,272,545	1,905,826,000

## during the year ended December 31, 1961

\$1,520,399,955	\$309,800,545	\$1,830,200,500
20,846,500	3,528,000	24,374,500
\$1,499,553,455	\$306,272,545	\$1,805,826,000
60,000,000	40,000,000	100,000,000
\$1,559,553,455	\$346,272,545	\$1,905,826,000

## ONTARIO AS AT DECEMBER 31, 1961

of Ontario bonds issued in part for the purposes of the Commission

Balances of advances outstanding December 31, 1961 (Payable in Canadian, United States, or Sterling funds)		
Southern Ontario System	Northern Ontario Properties	Total
\$	\$	\$
3,511,760	237,181	3,748,941
3,261,111	790,323	4,051,434
1,972,291	484,477	2,456,768
2,487,293	917,921	3,405,214
11,232,455	\$2,429,902	13,662,357

## of Ontario during year ended December 31, 1961

\$12,404,760	\$2,656,218	\$15,060,978
1,172,305	226,316	1,398,621
\$11,232,455	\$2,429,902	\$13,662,357

## SECTION III

### THE COMMISSION'S CUSTOMERS

**T**HE basis of partnership upon which the Hydro enterprise was founded is admirably demonstrated in the co-operative program undertaken by the Commission and the associated municipal utilities for developing and sustaining a well balanced load.

#### **The Load-building Program**

The success of the co-ordinated Commission-wide and locally oriented sales effort was clearly evident during 1961 in two specific sales campaigns. The first, called "Operation Eskimo", concentrated on sales of electric refrigerators and freezers; the later "Sunshine Special" was designed to increase the sale of electric dryers. Both involved the support of the utilities, and the co-operation of the electrical manufacturers, distributors, and appliance dealers.

In a comprehensive analysis of its recent province-wide survey on the use of electric appliances and equipment in Ontario homes, the Commission has sought to assess consumer attitudes toward appliance servicing, and to evaluate the availability, cost, and quality of local repair services. A published report will be available to municipal utilities, manufacturers, distributors, dealers, contractors, and others concerned with the marketing of electricity and electric appliances and equipment.

Subdividers and building contractors are being encouraged to take advantage of the higher than average sales appeal of Medallion homes. The Bronze Medallion

Standard requires a 100-ampere service entrance, a 20-circuit distribution panel together with five special circuits extending from the panel to the range, dryer, and kitchen counter areas, the installation of a dual-element water-heater of at least 40-gallon capacity, planned lighting outlets, and one lighting feature installed. The Gold Medallion Standard raises this standard of excellence by increasing the number of distribution circuits to 24, and the number of major appliance circuits to seven, and calls for five lighting features. An electric-heating installation to meet the requirements of the Triple Seal of Quality of the Electric Heating Association of Ontario is also a Gold Medallion requirement.

The Commission has introduced a plan whereby those responsible for subdivision development, if they will agree to meet Medallion Standards, can obtain at little added cost the attractive, tidy, and spacious effect contributed by the underground installation of distribution facilities. The initial outlay the developers are required to make may be recovered from the Commission on the basis of a sliding scale related to the electric load likely to result from the residential services installed. Some electrical utilities have also offered variations of this plan to builders and subdividers.

The Commission and the utilities installed 52,500 electric water - heaters during 1961, an increase of 25 per cent over the number installed in 1960. The introduction in 1962 of a new optional billing method is expected to encourage still further expansion of the market. Under the new method a bonus rate applicable to a block of 400-500 metered kilowatt-hours may be offered for water - heating



**LOAD BUILDING WITH ELECTRIC CLOTHES DRYERS** — More than 15,000 electric clothes dryers were sold during the Sunshine Special sales and load-building campaign in which the Commission co-operated with the municipal electrical utilities and with appliance manufacturers and dealers. A feature of the campaign was the presentation of an electric blanket as a premium to each purchaser of a dryer.

where a residential installation meets specific performance standards. Customer satisfaction will be improved since the prospective customer, under this arrangement, will not be tempted to install a unit inadequate for his purpose. This was frequently a source of dissatisfaction under the flat-rate plan.

The introduction in rural areas of a time-payment plan for rewiring older houses will help to remove the deterrent effect of outmoded wiring on the purchase of major items of electric equipment. While a number of utilities already



have similar plans in effect, the present plan is being recommended for general adoption by other utilities.

In the early stages of the present program to encourage the use of electric space-heating, a special minimum house-heating rate of 1.5 cents per kilowatt-hour (net) was introduced, to apply where electricity was used to heat more than 25 per cent of the floor area. The excellent response of the public, combined with the favourable characteristics of the space-heating load, has permitted a reduction in this rate by 10 per cent to 1.35 cents per kilowatt-hour (net) for the 1961-1962 season. Studies are continuing with a view to a further lowering of the rate wherever possible.

During the past year more than 900 electric house-heating installations were completed, and an additional 335 were under construction at the end of the year. The excellent response to electric heating for commercial establishments resulted in the installation of 18,000 kw of heating load during the year. By the end of the year 135 motels, 70 churches, 35 schools, and 15 apartment buildings were being heated electrically. There was increasing evidence of interest in electric heating for apartments, office buildings, and shopping centres.

Twelve courses provided by the Academy of Lighting Arts resulted in the qualification of 270 persons as lighting consultants. Among this number were



**GOLD MEDALLION HOME** — The design for this charming home was featured in a well-known Canadian monthly magazine. As an example of the completely equipped electric home, heated electrically throughout, its completion was made the occasion for a publicity program under the combined sponsorship of the Commission, the local electrical utility, the builder, and the magazine publishers.



architects, contractors, and representatives of fixture manufacturers and distributors. There was increased activity in providing information and service for the solution of lighting and display problems. During the year, 350 surveys and recommendations were made.

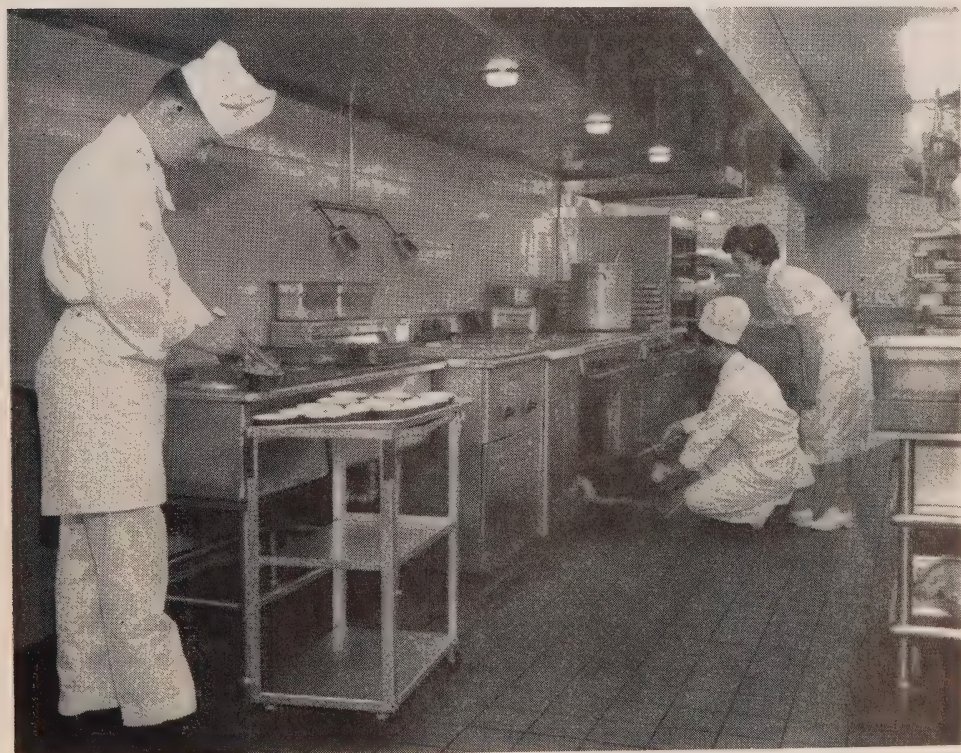
The results of extensive research and test installations have encouraged the expansion of the water-heater sales program into the commercial field. This development has been aided by the establishment of a flat rate for large installations with two elements of different capacities.

### **Industrial Power Service**

The Commission has continued to encourage the economic use of power through plantpower seminars, power-factor surveys, and close co-operation with other groups and organizations interested in the industrial use of electric power.

### **Deliveries of Power in Wholesale Quantities**

The table on pages 106 and 107 indicates how the Commission in its wholesale operation disposed of the 34,994,281,000 kilowatt-hours of primary and secondary energy during 1961. This total was 1.3 per cent greater than the corresponding figure of 34,554,846,788 kilowatt-hours in 1960.



**ELECTRIC COOKING EQUIPMENT IN COMMERCIAL INSTALLATION** — The gleam of ceramic tile and stainless steel is combined with clean, flameless cooking in this all-electric kitchen where meals are prepared for the staff of a large insurance company in downtown Toronto.





**SPECIALIST TRAINING FOR ELECTRIC-HEATING SALES** — The photograph shows only one section of the 80 members of Commission and Utilities sales staffs who were attending an electric-heating training course held in the early autumn at the Commission's Niagara Falls Conference and Development Centre. The specialist instruction the group received equips them to conduct qualifying courses for electrical heating contractors in their own local areas.

A 14 per cent decline in the kilowatt-hours of secondary energy delivered to the Commission's direct industrial customers and the interconnected systems, and a 5.5 per cent decline in the primary kilowatt-hours delivered to these same groups were more than offset by increased deliveries to the municipal electrical utilities and the rural operating areas. Of the total energy disposed of in wholesale quantities, the municipal utilities and local systems received 55.5 per cent, the direct industrial customers 24.7 per cent, the interconnected utilities 11.4 per cent, and the rural operating areas 8.4 per cent.

The commentary that follows is confined for the most part to the wholesale aspect of the Commission's operations, since retail distribution of electricity by the municipal electrical utilities and by the Commission-owned local systems is dealt with in the municipal service supplement beginning on page 175. A brief analysis of rural distribution statistics, however, is included with the report on bulk supply to the rural operating areas so that the Commission's rural service may be considered as a whole. Supporting statistics on rural service, a schedule of rates, and a brief description of the classes of service are given in Appendix III.

The number of ultimate customers served by the Commission and the associated municipal electrical utilities in 1961 was 1,938,897.

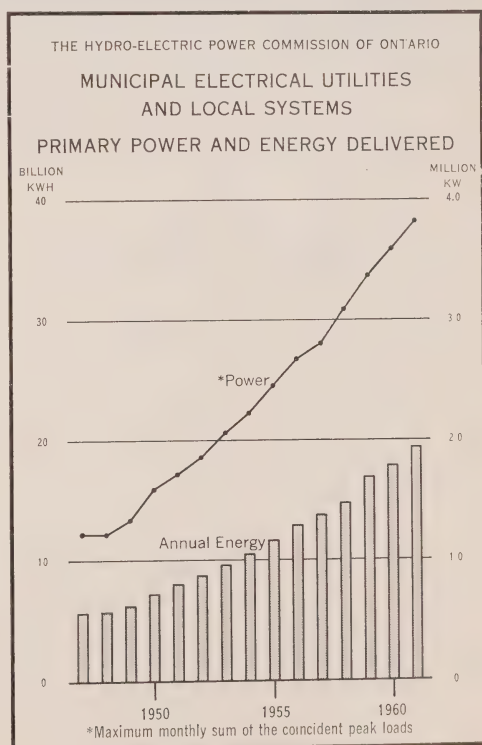
## MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

The total number of municipal systems being served by the Commission's transmission line networks at the end of 1961 stood at 382, unchanged from the number served at the end of 1960. This total includes 350 utilities served under cost contracts, 4 served under fixed-rate contracts, and 28 Commission-owned local systems.

In 1961 London Township Hydro System was amalgamated with London Public Utilities Commission, and the municipalities of Merriton and Port Dalhousie became part of the enlarged City of St. Catharines. On the other hand, the Villages of Beachburg and Killaloe Station both became cost-contract customers of the Commission effective January 1, 1961, so that the net change in the number of cost-contract utilities in the Southern Ontario System was a decrease of 1 to 325. The number of cost-contract utilities in the Northern Ontario Properties was increased by 1 to 25 when the Village of South River began taking power under a cost contract on April 4, 1961. Beachburg and Killaloe Station were formerly served over the Commission's rural distribution facilities, and South River was formerly supplied by a private company.

The cost-contract municipal electrical utilities are billed monthly at an interim rate per kilowatt of peak load. The monthly peak load for a utility is the maximum average demand over a period of twenty consecutive minutes in the month. As the system peak load usually occurs in December, the peak loads for that month are given for these utilities and for local systems in the statistical table (Statement "D") beginning on page 258. The sum of these loads in 1961 was 3,818,399 kilowatts, an increase of 6.4 per cent over the 3,588,542 kilowatts supplied in 1960. The energy supplied to the municipal utilities and local systems during 1961 was 19,412,729,847 kilowatt-hours, an increase of 8.4 per cent over the 17,907,540,003 kilowatt-hours supplied in 1960.

Each of the municipal electrical utilities is listed in the tables of financial reports and operating statistics that form the larger part of the municipal service supplement beginning on page 175. The books of account from which the financial information is derived are kept by the utilities in accordance with a standard accounting system designed by the

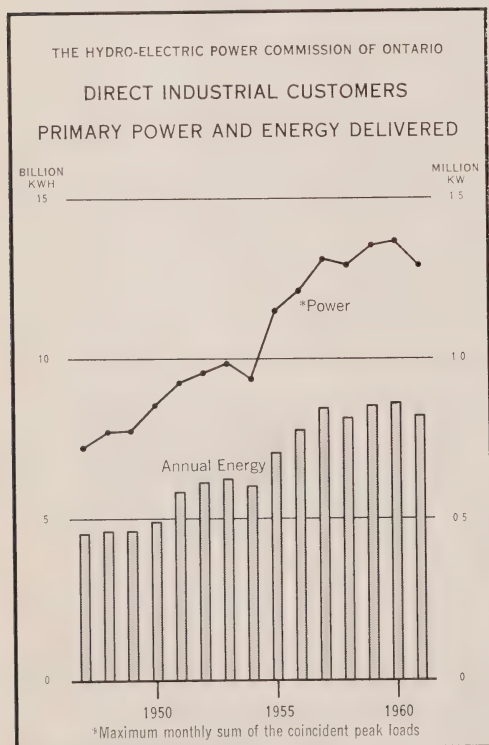




Commission for use by all utilities served under cost or fixed-rate contracts. These records are periodically inspected by the Commission's municipal accountants, and from time to time adjustments and improvements in accounting and office routine are recommended as the requirements of standardized methods may dictate. This type of assistance and supervision is directed towards ensuring the correct application of the standard accounting procedure and the uniform classification of revenues and expenditures. The work carried out by the Commission's municipal accountants on behalf of the municipal utilities does not constitute an audit of the accounts. For such an audit the municipalities must make their own arrangements.

### DIRECT INDUSTRIAL CUSTOMERS AND INTERCONNECTED SYSTEMS

The industrial customers served directly by the Commission include mines in relatively isolated areas, and industrial enterprises of many types whose requirements for power may exceed the supply capability of the local municipal or rural facilities. The number of customers being so supplied by the Commission at December 31, 1961 was 199 as compared with 211 at December 31, 1960. In addition, 14 independent utilities both within and beyond the borders of the Province have contracts with the Commission for the supply or interchange of power, but these are not industrial customers in the generally accepted sense. Their loads are therefore not included in the table of power and energy supplied to industrial customers, or in the historical chart on this page.

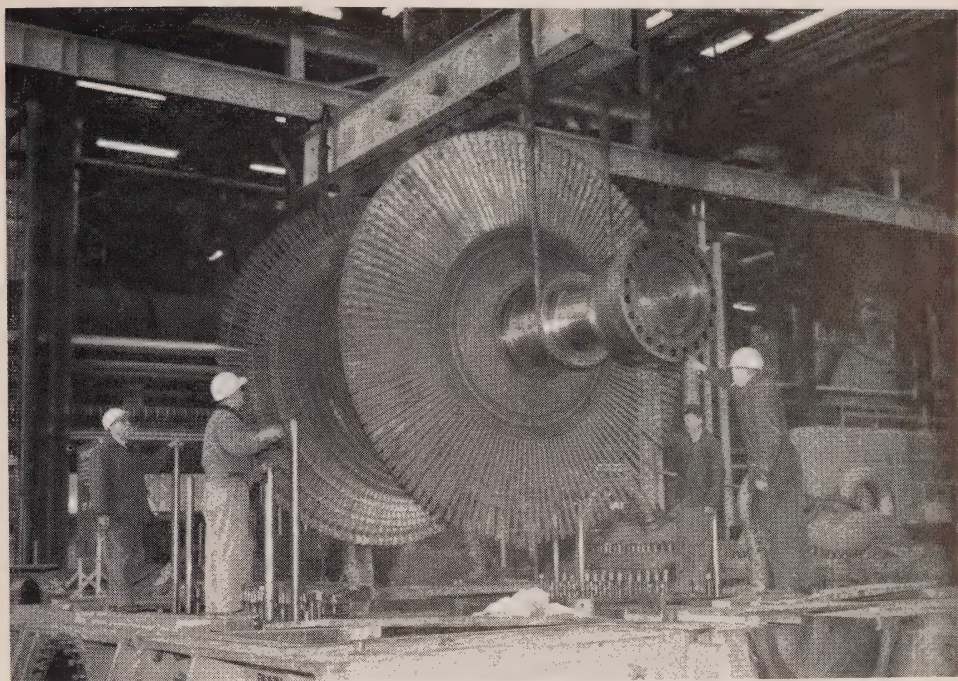


The sum of the coincident primary peak loads of the Commission's industrial customers reached a monthly maximum of 1,296,063 kilowatts in September 1961, thereby registering a decline of 5.2 per cent from the March 1960 maximum of 1,367,708 kilowatts. The annual energy delivered in 1960 and 1961 is shown by types of industry in the accompanying table, together with comparative figures on the average of the monthly peak loads in both years for each type of industry. These averages are considered to be a better basis for comparison than the peaks for any one month in the year.

#### Analysis of Primary Loads by Types of Industry

The total primary energy delivered to the Commission's direct industrial customers declined by 4.8 per cent, the third and largest decline





LAKEVIEW GENERATING STATION — The rotor for the low-pressure section of Unit 1 is manoeuvred into position by the turbine-room service crane. This equipment was manufactured in the United Kingdom. Up to 60 per cent of the total cost of the turbo-generators for Units 3 to 6, however, is being spent in Canada, an interesting evidence of the rapid development of Canadian secondary industry.

registered in the past 10-year period. The total number of customers represented does change from year to year, and certain customers at one time served by the Commission are now supplied by their respective local utilities. To that extent these figures on energy delivered are not strictly comparable from year to year. Nevertheless the record of the Commission's energy deliveries to as many as 200 industrial users, including some of the major companies in their field, may be taken as a general indication of the state of the economy. It is evident from the number of declines recorded in the accompanying table that the industrial slackening already experienced in 1960 carried through well into 1961. Indeed, the year was in its third quarter before there was any evidence of improvement in loads. Thereafter, however, the climb was distinctly encouraging, and though not all the lost ground was recovered in 1961, there were evidences of strong upward pressure, particularly in the abrasives, chemical, and electrometallurgical groups in the Southern Ontario System, where power requirements during the second half of the year strongly supported growth trends approximating the long-term system rate of better than 6 per cent.

The table of energy supplied to direct industrial customers shows that there were declines in energy deliveries to customers representing nearly 53 per cent of the total delivered. With the exception of Government services, a relatively minor segment of the total, even those industrial groups that had shown modest or

even notable gains in 1960 either levelled off sharply or shifted to a declining trend, while declines already evident in 1960 were somewhat accelerated. The encouraging feature of the year, however, was the improvement in the power requirements of customers in the Southern Ontario System towards the end of the year, a fact that gives good reason for an optimistic outlook for 1962. In northern

### Primary Power and Energy Supplied to Direct Industrial Customers, by Types of Industry

Type of industry	Average of the monthly peak loads		Annual energy delivered		Increase or decrease
	1960	1961	1960	1961	
	kw	kw	kwh	kwh	per cent
Pulp and Paper .....	343,533	348,479	2,282,342,756	2,292,831,506	0.5
Mining:					
(a) Gold .....	89,889	89,203	607,729,896	595,207,649	2.1
(b) Silver and Cobalt .....	3,710	4,241	19,068,249	21,812,663	14.4
(c) Base Metals .....	221,204	205,837	1,559,451,380	1,491,326,937	4.4
(d) Uranium .....	86,626	58,826	577,340,966	392,527,096	32.0
(e) Non-metals .....	6,304	6,448	28,407,210	33,010,040	16.2
Quarrying, Cement, and Basic Building Materials .....	37,017	37,564	201,212,808	193,782,158	3.7
Steel and Electrometallurgical .....	153,917	151,704	852,273,366	838,172,348	1.7
Abrasives .....	70,709	59,629	567,394,120	479,879,320	15.4
Chemical, Electrochemical, and Cyanamid .....	169,721	175,387	1,308,934,983	1,313,703,903	0.4
Grain Elevators and Milling .....	7,968	5,437	28,512,869	17,332,237	39.2
Transportation Services and Communications .....	9,125	8,335	40,191,985	38,530,366	4.1
Government Services and Institutions .....	25,972	32,612	153,663,498	164,084,678	6.8
General Manufacturing .....	80,058	63,191	377,563,845	311,481,080	17.5
Miscellaneous .....	7,428	10,160	38,611,069	44,678,664	15.7
Total .....	1,313,181	1,257,053	8,642,704,000	8,228,360,645	4.8

Ontario, however, the power requirements of the mining, and pulp and paper industries generally continue to fall well short of the companies' unduly optimistic forecasts of some years ago. The Commission, having developed resources to meet these forecasts, is therefore carrying greater than normal reserves of power where these loads predominate, particularly in the Northwestern Division.

### Primary Loads of Interconnected Systems

The corresponding primary peak and energy loads of the interconnected systems were 60,019 kilowatts in 1961 as compared with 54,140 kilowatts in 1960, and 351,995,374 kilowatt-hours in 1961 as compared with 439,086,355 kilowatt-hours in 1960. The peak load was 10.9 per cent higher and the energy load 19.8 per cent lower in 1961 than in 1960.



## **Secondary Energy Sales**

Sales of secondary energy declined by 14 per cent in 1961 from the previous year's level of 4,714,805,404 kilowatt-hours in 1960 to 4,054,757,818 kilowatt-hours. The interconnected systems showed the larger decline from 4,267,047,937 to 3,634,609,476 kilowatt-hours and the direct industrial customers a decline from 447,757,467 to 420,148,342 kilowatt-hours.

## **RURAL ELECTRICAL SERVICE**

On March 24, 1911, the Legislature of the Province of Ontario enacted an amendment to The Power Commission Act with a view to facilitating rural electrification. Entitled "An Act to provide for the Local Distribution of Electrical Power", the measure permitted the Commission to enter into agreements with the Townships and with smaller rural communities, without the usual general approval of the electors, for the supply of power even to a single ratepayer provided he was prepared to meet the costs of the service made available. The Act was perhaps the first evidence on the North American continent of interest on the part of Government in extending rural electrification. It distinguishes this Province as a pioneer in bringing the benefits of electric power to the rural community. During the ensuing ten years agreements were negotiated with 35 local authorities, and at the end of this period a total of 306 miles of rural lines were serving approximately 2,900 customers. Since much of the work undertaken was by necessity experimental, operations under the 1911 legislation were in large part extensions of established municipal systems reaching out to serve adjacent rural areas.

With the enactment of The Rural Hydro-Electric Distribution Act on June 1, 1921, the Provincial Commission assumed a more important role in the administration of its trusteeship for the developing rural distribution system, and became the channel through which the Government was prepared to advance for the benefit of agriculture and the rural community in general, 50 per cent of the capital cost of rural distribution facilities. Upon this act the pattern for four decades of subsequent rural expansion was firmly established.

Thus Ontario Hydro, with the encouragement and support of the Provincial Government, embarked upon what was then a pioneering program in rural electrification. Given specified minimum customer densities per mile of line to be constructed, the undertaking on the Government's part to assume 50 per cent of the capital cost required to construct the rural distribution facilities enabled the Commission to relieve the ultimate customer of the burden of meeting charges for interest and repayment of principal on this much of the capital involved. The Commission, during these early years, continued to expand its rural facilities in any areas where customer densities were sufficient to meet requirements. Retail rates in each local rural district were adjusted as necessary to meet varying local distribution costs. Over the years, however, the extent of variation in rates from district to district was progressively reduced until in 1944 rural rates became uniform for all classes of service except industrial power in a Rural Power District extending across the whole province.

**Rural Power District****NET INCREASE OR DECREASE IN MILEAGE OF PRIMARY LINES AND  
NUMBER OF CUSTOMERS DURING 1961**

System and Region	Miles of primary line	Number of customers							
		Farm	Residential		Com-mercial	Summer		Power	Total
			Rural	Hamlet		Com-mercial	Other		
SOUTHERN ONTARIO SYSTEM									
Western.....	1,301.93	5,871	524	12,615	54	18	1,056	80	5,172
West Central and Niagara combined.....	1,578.15	6,376	226	13,006	1,460	14	687	100	21,841
Central.....	10.82	292	108	1,685	91	6	95	50	1,527
Georgian Bay.....	116.44	75	383	713	164	142	1,457	38	2,972
East Central.....	144.24	9	135	997	62	108	1,274	19	2,604
Eastern.....	85.61	55	176	2,042	119	39	383	36	2,850
Total.....	59.25	658	884	20,184	970	327	3,578	37	17,060
NORTHERN ONTARIO PROPERTIES									
Northeastern.....	64.97	553	589	1,521	102	36	87	.....	1,782
Northwestern.....	48.04	647	540	557	95	19	171	1	736
Total.....	113.01	1,200	1,129	2,078	197	55	258	1	2,518
Total—All systems.....	172.26	1,858	2,013	18,106	773	382	3,836	36	14,542

*Italic figures indicate decreases.*

During the early years of readjustment to the new type of administration, increases in the number of customers served were small by recent standards. The proportional increases from year to year in the 1921 to 1930 decade were nevertheless little short of phenomenal. Between 1923 and 1924 the number increased by 150 per cent and the later years saw increases varying from 19 to 38 per cent. A decline to 11 per cent in 1932 marked the beginning of a period of relatively little progress brought on by economic depression. A notable acceleration beginning in 1936 was again slowed almost to a halt in the middle years of the war in 1942 and 1943. This was followed by a really spectacular development over the years 1947 to 1950 inclusive, so that the decade 1942-1951 saw by far the greatest 10-year increase up till that time in miles of line, customers served, and farm services provided. It remained for the decade 1952-1961 to register the greatest increase in the number of rural residential customers, and in dollars of revenue.

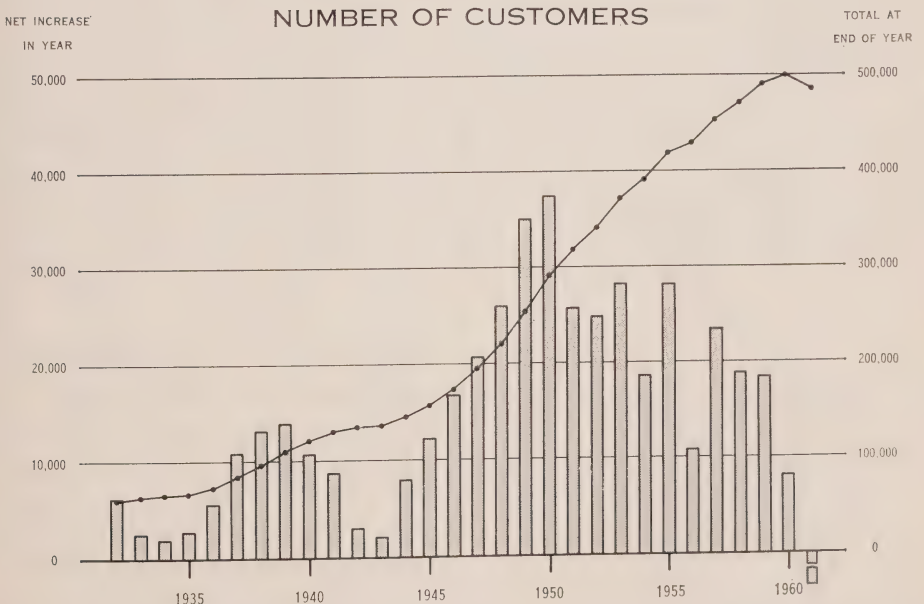
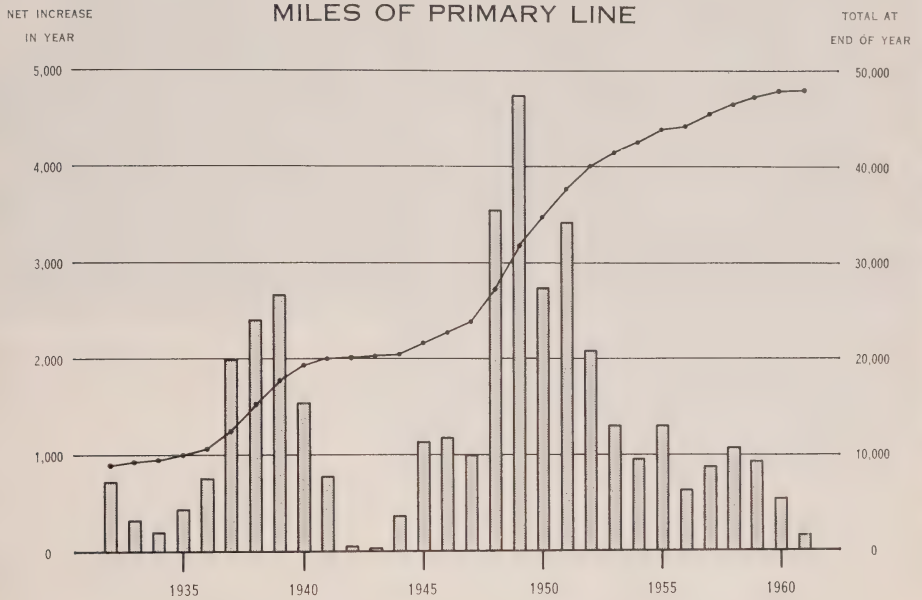
At the end of 1961 the investment in rural facilities at cost was \$274.3 million, of which the Province of Ontario had contributed a total of \$115.9 million in the form of grant-in-aid. These facilities were serving 484,749 customers, including 138,924 farm service customers. The rural distribution network included 48,068 miles of primary line.

Over the most recent 10-year period all classes of service have shown increases in customers, consumption, and revenue. With increased customer usage of facilities, the average cost per kilowatt-hour declined in 1961 for all services;

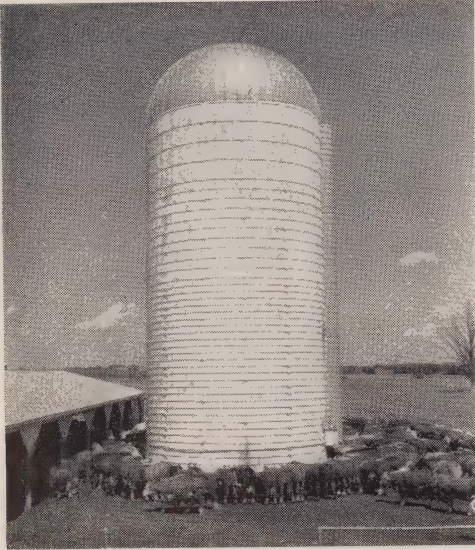


THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

# RURAL POWER DISTRICT

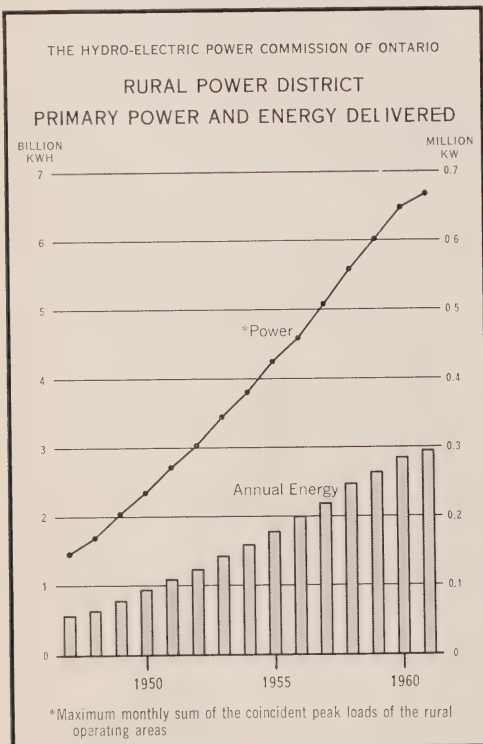


DECREASE — 14,542



**CATTLE-FEEDING THE EFFORTLESS ELECTRIC WAY** — This Lazy Susan type of silo is installed on a farm which raises a herd of a thousand beef cattle. The farmer can deliver ensilage mixed with diet supplements in the correct proportions to the feeding station without moving from the farm office where his control equipment is installed.

for all services, except summer service where there has been little or no increase in average consumption, the cost per kilowatt-hour was lower in 1961 than in 1951.



During 1961 the total number of rural customers served by the Commission declined by approximately 14,500, the first decline in 50 years of varied but continuous rural development. This check in growth is directly attributable to annexations by municipalities which, in their process of expansion, have absorbed certain adjacent rural areas usually having high population densities and concentrated loads. Such suburban areas provide the strongest support for sound financial operations in the Rural Power District, which must also serve the outlying, sparsely settled areas, where the cost of service can exceed the revenue obtained. This trend in municipal annexation is not new, but in view of recent extensive annexations, it does direct attention to a growing financial problem. The rural service has been



operated for half a century with general success. Since 1944 there has been a province-wide uniform rate structure. The problem confronting the rural district today is whether it can be expected to continue on a self-sustaining basis at acceptable rates, if the densely populated areas which are its best source of revenue continue to be absorbed by municipal utilities, while at the same time, the rural electrical facilities are required to reach out and serve a growing area of sparsely settled territory where costs of service are inevitably high.

This year's Report records a reduction in the number of rural operating areas from 100 to 97. In the Western Region, Dorchester Rural Operating Area was amalgamated with London Rural Operating Area, the larger part of which had been annexed by



**HYDROPONICS IN DAIRY-CATTLE FEEDING** — In a building 12 feet by 20 feet, 120 trays of green feed are developed under controlled light and heat conditions without benefit of soil. This provides each milking cow in the stable with 12 pounds of green hydroponics feed per day in addition to the normal food complement.

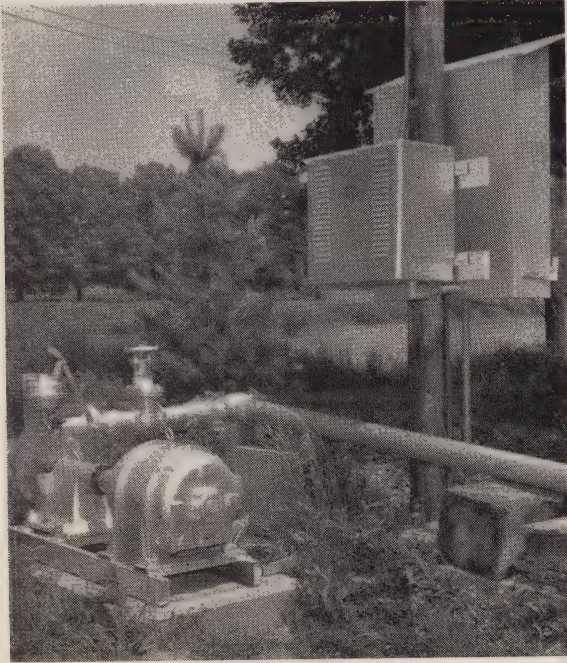
London Public Utilities Commission. Mitchell Rural Operating Area, formerly in the West Central Region, and Plantagenet Rural Operating Area in the Eastern Region were also amalgamated with neighbouring areas. A rearrangement in regional administration resulted in the transfer of Clinton and Stratford Rural Operating Areas, somewhat expanded by amalgamation with parts of the former Mitchell Area, from the West Central Region to the Western Region. In view of the progressive amalgamation of the Niagara and West Central Regions that took place during 1961, the rural statistics for these two regions have been combined in this Report.

## Load Growth

The monthly sum of the coincident peak loads in the 97 rural operating areas was 667,816 kilowatts in December 1961, showing an advance of 3.2 per cent over the peak of 647,346 kilowatts in 1960. Energy supplied to the areas during the year rose by 3.4 per cent from 2,850,711,026 kilowatt-hours in 1960 to 2,946,437,316 kilowatt-hours in 1961.

All classes of service used more energy in 1961 than in 1960, the increases ranging from 2.4 per cent for hamlet and rural residential service to 10.2 per cent

for summer service. The latter was the only class of service to show an increase in the number of customers served. At 6.9 per cent increase in farm service consumption in conjunction with a decline of 1.3 per cent in the number of farm customers served resulted in a 7.8 per cent increase in average consumption per customer, and the seventh successive annual decline in average cost per kilowatt-hour for this class of service. This average cost was lower in 1961 than in any



PHASE CONVERTER MEETS AN IRRIGATION PROBLEM — The phase converter installed on the distribution pole converts single-phase power to three-phase power for the operation of the 20-hp motor used for crop irrigation.

year since 1950. Average cost per kilowatt-hour also declined in 1961 for the other four services, for hamlet and rural residential service and for industrial power service to the lowest levels since 1949. While the largest proportional increase in revenue was the 7.9 per cent registered by industrial power service, the largest increase in actual amount was that of \$678,441 for farm service. In total revenue received during 1961, either farm service or the combined hamlet and rural residential service is larger than the three other services combined. Together, the farm and combined hamlet and rural residential services represent 70 per cent of the rural revenues received, and over 70 per cent of the energy sold.

During the year a new farm service rate schedule was introduced. The new schedule subdivides farm services into two groups, those with a monthly consumption of 2,000 kilowatt-hours or less, and all others, the latter having a minimum-demand rating of 10 kilowatts. Since the rate applicable to any farm service is now completely divorced from the service-entrance capacity, customers can add major electric appliances and farm equipment to their loads without having to weigh the advantage against the cost of the possible application of a higher rate. The new schedule encourages the generous use of electricity in the farm home and in general farm operations. Under the revised schedule approximately 5 per cent of farm service customers received lower bills than under the former schedule, while the bills of other farm services were unchanged.



## REPORTS FROM THE REGIONS

### Western Region

Many utilities in the Region continued programs of distribution system improvement that were already under way. Others, with the promise of acceleration in load growth, established long-range programs for system rehabilitation over a period of years.

The policy of London Public Utilities Commission is now to install underground service for all new subdivisions within the city limits. The municipalities of Brussels and Seaforth began replacing the distribution systems in business areas with underground systems, and at the same time modernized their street-lighting systems. Windsor Public Utilities Commission continued with a major rehabilitation program for street lighting. The Woodstock Commission began construction for a two-storey electrically heated office building at the site of its service centre. The Ingersoll Public Utilities Commission purchased and renovated a building to provide attractive accommodation for all utility departments.

### Niagara and West Central Regions

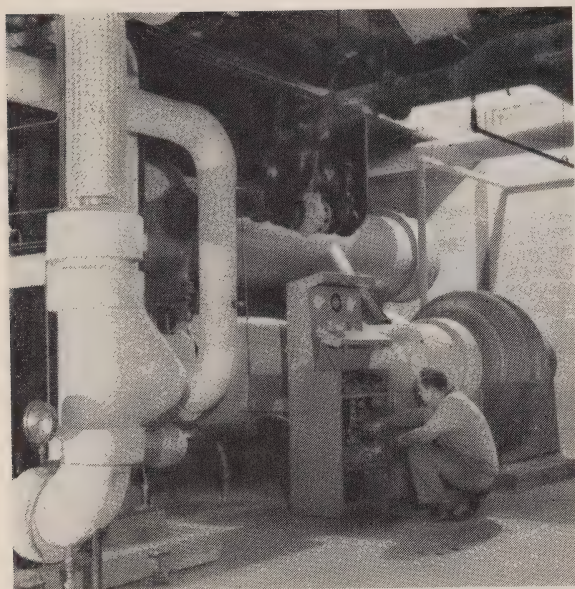
During 1961, operations in these two regions were progressively amalgamated, and the completion of the process was officially recognized by the extension of the name Niagara Region to cover the combined regions, effective January 1, 1962. Administrative headquarters for the enlarged Niagara Region will be in Hamilton. Coincident with this change, administrative control of Clinton, Stratford, and Mitchell Rural Operating Areas, formerly in the West Central Region, was transferred to the Western Region, which will now also include the former West Central Region municipalities of Blyth, Brussels, Clinton, Dublin, Goderich, Mitchell, St. Mary's, Seaforth, Stratford, and Tavistock.

The municipal utilities of St. Catharines and Welland have greatly expanded their operations, the former as the result of the amalgamation of the City with Merritton, Port Dalhousie, and part of Grantham Township, and the latter following the annexation of parts of the Townships of Crowland, Humberstone, Pelham, and Thorold.

Several major utilities, including Brantford, Galt, Guelph, Hamilton, Kitchener, and Waterloo, either continued or initiated extensive construction of underground distribution facilities. Waterloo is proceeding with plans to install a new 115—13.2-kv transformer station.

New offices incorporating electric heating were constructed by the utilities in Burford, Caledonia, Dundas, and Elora. There is general interest among the utilities in the Region in the promotion of residential electric heating. Good progress was maintained in water-heater sales, and new water-heater rental programs were initiated in Ayr, Brantford, Moorefield, and Paris.

With the continued interest in improved street lighting, many utilities have been particularly active in modernizing their systems.



**HEAT-PUMP INSTALLATION IN SHOPPING CENTRE** — In the first electrically heated shopping centre in Canada, this heat-pump installed in the Thorncliffe Market Place in Metropolitan Toronto heats, and in accordance with the season, cools 32,000 square feet of concourse and more than forty stores.

### Central Region

There was continued activity in new housing in most sections of the Region, particularly in Ajax, Brampton, the suburban townships adjacent to Toronto, and in the Markham and Richmond Hill Rural Operating Areas. In the City of Toronto and adjacent metropolitan municipalities, there has been a decided trend towards large apartment buildings. Considerable interest in electric heating for these structures has been indicated by the contractors and owners, and a number of electric-heating installations are already well under way.

The Toronto Hydro-Electric System continued to expand its underground network, and further extended its network facilities by the



**ORILLIA WATER, LIGHT AND POWER COMMISSION OFFICE BUILDING**

Electric heating, air conditioning, and high-level illumination are among the modern features of this new building placed in service during 1961. Orillia first received electric power in 1902 over 19 miles of transmission line from Ragged Rapids Generating Station on the Severn River, and thus became a pioneer community in the generation and use of electricity on this continent.



addition of 23.3 miles of duct. The total length of underground duct owned by the municipal system at the end of the year was 2,025 miles.

The Village of Forest Hill constructed a new municipal building which will house the local electrical utility. Toronto Hydro-Electric System opened its new service building during 1961. The new building, having a floor area of 160,000 square feet, adjoins the Central Stores Building north of MacPherson Avenue between Madison Avenue and Huron Street. The Whitby Public Utilities Commission also opened a new service building and in addition completed extensive alterations to its office building.

In all, 14 municipally owned distributing stations, representing a total additional installed capacity of 63,000 kva, were added in the Region together with 21 new 27.6-kv customer-owned substations to supply industrial load growth amounting to 16,450 kva.

### Georgian Bay Region

In Orillia, Alliston, and Wasaga Beach the local utilities have provided new office buildings, all electrically heated. There has also been a general acceptance of electric heating throughout the Region, not only for private residences, but also for more extensive installations in motels, churches, and schools.

In order to meet growing power requirements, the substation capacity was increased in the municipalities of Durham, Markdale, Paisley, and Wingham. In Port McNicoll the distribution-system voltage was changed from 4 to 8 kv.

### East Central Region

There were increases in transformer capacity at two major substations in the Region, one in Belleville and one in Kingston, and these increases were accompanied by feeder and distribution-system changes as required. There were further major distribution-system improvements in Newburgh and Picton. Among the number of



**POLE PLACEMENT BY HELICOPTER** — In the first full-scale operation of this kind by the Commission, a helicopter is shown placing a distribution pole, at least 800 pounds in weight, in a location inaccessible by road. The placement of each pole, including the helicopter's 24-mile round trip between the pole-storage area and the site, required half an hour.

utilities engaged in improving and modernizing street lighting, Belleville, Cobourg, and Wellington in particular provided major expenditure for this purpose in 1961. The Kingston Public Utilities Commission provided an extensive low-cost underground distribution system in a new subdivision.

An annexation by the Town of Lindsay of a section of adjacent rural area involved the local utility not only in the purchase of the associated rural facilities, but also in changes in the local feeder and distribution systems to accommodate the additional load. The utility also expanded its storeroom and garage facilities. The Port Hope Hydro-Electric Commission installed electric heating in its office building, using a heat pump and supplementary resistance heating. In Peterborough, a new operating centre was established and placed in operation by the local commission in 1961. It provides remote-control facilities for all the Peterborough substations.

### **Eastern Region**

Two new cost-contract utilities were added in the Eastern Region at the beginning of 1961 after ratepayers in Beachburg and Killaloe Station had approved by referendum the purchase of the distribution facilities within their respective communities, which had been formerly served as part of the Commission's rural system.

The Commission was able to provide assistance to two municipal utilities that experienced unfortunate fires in 1961. Additional power was supplied to Almonte during a two-month period following the fire that put one of the local generating units out of service on March 9. At Brockville a temporary substation was rushed into service when a fire following a severe electrical storm made the Municipal Station No. 1 completely unserviceable. Since the damaged station was already obsolescent, the Brockville Public Utilities Commission eventually replaced it with a new station.

Sales activity was increased throughout the Region with notable success being achieved in Alfred, Hawkesbury, and Prescott. In Hawkesbury extensive relocation of homes and services has been required in anticipation of the proposed flooding occasioned by the Carillon Power Development of the Quebec Hydro-Electric Commission. The opening of a completely new section of the town has required the installation of new distribution facilities. In Smith's Falls a large new milk-processing plant scheduled for operation in mid-1962, and having an estimated load of 2,300 kw, required the construction of additional 44-kv transmission and suitable transformation facilities.

### **Northeastern Region**

With a view to load building, most utilities were engaged in some or all of the various programs devised for this purpose — appliance market surveys, the promotion of electric water-heating, Medallion homes, and electric space-heating.



In order to provide adequately for service to existing and increasing loads in the Village of South River, which became a cost-contract municipal customer of the Commission in March 1961, considerable rehabilitation of the municipal distribution system was carried out. The Cochrane Public Utilities Commission changed its distribution system for operation at a higher voltage in order to improve service. At Hearst, a major change at the local distribution station raised the station capacity to almost three times the former level.

### **Northwestern Region**

The municipal utilities in the Region had a meeting in Port Arthur in November 1961 to inaugurate a Northwestern District of the Association of Municipal Electrical Utilities. Though members of the Provincial Association, these utilities in the Northwestern Division had not previously established a local District organization.

In October, Mr. W. Ross Strike, Chairman of Ontario Hydro, laid the cornerstone for the recently completed electrically heated office building of the Terrace Bay Township Hydro System. In Rainy River the local electrical utility was able to introduce early in 1961 a general rate reduction averaging about 10 per cent.

## **PUBLIC RELATIONS AND SERVICES TO CUSTOMERS**

The many unique features of the Commission's development are the basis for widespread interest on the part of the general public. During the past year 249,000 persons visited those generating stations which were open for public inspection, and some 2,100 persons with particular professional or scientific interests took tours especially arranged. The Commission, in conjunction with Atomic Energy of Canada Limited, established an information centre at the Douglas Point Nuclear Power Station site; additional facilities are being made available for the convenience of visitors, who numbered more than 42,000 in 1961.

Exhibits at local fairs and other public displays were attended by approximately 800,000 people, and screenings of Commission films of topical interest were viewed by more than 520,000 persons.

Motion picture films are being produced to show current power-station construction work, special emphasis being given to the Nuclear Power Demonstration, Douglas Point Nuclear Power, and Lakeview Generating Stations. These will figure prominently in the "Highlights of 1961" film which will be available to the public as a review of the year's activities.

The finals in a province-wide public speaking contest for elementary and secondary school students will form part of the program at the Ontario Educational Association Convention in the spring of 1962. Jointly sponsored by the Commission and the Ontario School Trustees' and Ratepayers' Association, the 1961-62 contest attracted approximately 200,000 entrants.

With the purpose of encouraging study in engineering, particularly in courses related to its own operations, the Commission in 1961 awarded a total of twelve

scholarships to promising students in Ontario universities, colleges, and technical institutes.

That the professional competence of Ontario Hydro staff is widely recognized throughout the world is demonstrated in their participation by invitation in the deliberations of professional and technical societies. In addition it should be a matter of pride to all Canadians that Ontario Hydro, through Canada's participation in the United Nations' efforts and in the Colombo Plan, has made available, or is making available the services of some of its most capable staff members on loan to such countries as Pakistan, Ghana, Lebanon, and Iran. The Commission is gratified to be able to record these efforts to foster good international relations.

### **Electrical Inspection**

Under The Power Commission Act the issuance of regulations governing the installation of electric equipment and wiring, and the inspection and approval of the installations themselves are the responsibility of the Commission. Information supplementary to the published Regulations under the Act is disseminated through periodic issues of electrical inspection bulletins.

Members of the staff responsible for this inspection type of work are closely associated with the activities of related authorities, with the purpose of co-ordinating Commission policy with that of such official bodies as the Canadian Standards Association Approvals Council, and the committees on the Canadian Electrical Codes Parts 1 and 2. All plans for high-voltage installations in commercial and industrial establishments are subject to review and report by Head Office inspectors before approval is given for installation work to proceed.

During 1961 the Commission issued 306,912 permits for electrical installations. In all, 656,212 inspections were made of work completed or in process. These statistics are generally regarded as some indication of the level of activity in the construction industry as a whole.

Inspection reports indicate that the frequency of fires due to electrical causes rose again during 1961 for the third year in succession. It is apparent that continuous effort must be maintained if the general public is to be awakened to the danger of depending on inadequate or substandard wiring for the operation of the multiplicity of electrical appliances now in common use. Forty-one fires were attributed to electrical causes in 1961.

Nineteen deaths were reported to be the results of incidents involving electricity.

### **Rates Study**

The steady growth in the demand for electricity is accompanied by continuous change in the pattern of its application and use. The changing pattern requires unrelenting study so that rate structures may result not only in revenue adequate for sound financial operation, but also in an equitable distribution of the costs of service among the customers supplied. Through the Rates Committee of the Association of Municipal Electrical Utilities, the municipalities also make their

contribution to these studies. Of special interest are the recent studies of the load characteristics of fast-recovery water-heaters, and of electric house-heating. These have led to improvements in the residential rate structure. During 1961 a complete review of rates for farm service was made, with the subsequent introduction of an improved rate structure applicable to all sizes of farms. A major project at present is the development, in conjunction with the AMEU Rates Committee, of simpler methods of allocating costs to the various types of customer services.

## SECTION IV

### PLANNING, ENGINEERING AND CONSTRUCTION

One of the important developments in Ontario Hydro over the past 10 years has been the gradual extension of interconnection arrangements with power systems in Quebec, Manitoba, and the neighbouring states of Michigan and New York. This has followed the pattern of a similar process in the integration of the Commission's own power networks to which reference is made in the Foreword.

#### Summary of the Power Development Program as at December 31, 1961

<i>System and Development</i>	<i>Number of Units</i>		<i>Capacity*</i> <i>kw</i>
	<i>In Service</i>	<i>Scheduled</i>	
SOUTHERN ONTARIO SYSTEM			
Nuclear Power Demonstration—near Des JoachimsGS		1T 1962	20,000†
Lakeview—near Toronto.....	1T 1961		300,000†
		5T 1962—1966	1,500,000†
Douglas Point Nuclear Power—near Kincardine.....		1T 1965	200,000†
NORTHERN ONTARIO PROPERTIES			
NORTHEASTERN DIVISION			
Otter Rapids—Abitibi River.....	2H 1961	2H 1963	172,000
Little Long—Mattagami River.....		2H 1963	114,000
Harmon—Mattagami River.....		2H 1965	110,000
Kipling—Mattagami River.....		2H 1966	132,000
NORTHWESTERN DIVISION			
Thunder Bay—Fort William.....		1T 1962	100,000†

\*Capacities quoted are dependable at time of system peak except those marked †, which are installed capacities.

T indicates Thermal-electric

H indicates Hydro-electric



For some months before the tie-line between the Northeastern Division and the Southern Ontario System was established in 1950, the Commission was operating at Kirkland Lake Transformer Station an interconnection that crossed the boundary of the Province of Quebec. The Commission, having in prior years supplied power to a private utility in the neighbouring province, used the interconnection arrangement and the facilities of the private utility to purchase power from the adjacent system of the Quebec Hydro-Electric Commission. Since the late 1920s it has had major electrical connections for the purchase of power from Quebec suppliers for use in southern Ontario. In addition, the Commission had facilities for the export of power to the Niagara Mohawk Power Corporation at Cornwall and at Niagara Falls, the former also making use of the intermediate facilities of a private utility. The interconnections established for the most part during the past decade, however, permit great flexibility in the interchange of power across provincial and international boundaries. They were made possible by the recently completed program of frequency standardization in Ontario, and were in part the basis for proceeding with that program.

The benefits of interconnection, which are normally shared equally by the participating utilities, stem from reciprocal arrangements for the delivery of power. In the early days of operating the major interconnections developed during the 1950s, and indeed up until recently, the Commission was able to dispose of large quantities of surplus hydro-electric power to neighbouring utilities at prices that were attractive to them as their resources were mainly thermal-electric. Now that as much as 23 per cent of the Commission's generating capacity is thermal-electric, this aspect of its operation is declining in importance. It is, however, still important that one of two interconnected systems can purchase power from the other at any time when to do so is more economical than starting up its own idle thermal-electric units. In emergencies also each participant in the interconnection has the benefit of the added security resulting when reserves of power on two or more systems

#### Expenditures on Capital Construction 1952 - 1961

	Genera- tion	Transfor- mation	Trans- mission	Rural	Other	Total
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1952 .....	96,682	22,954	15,628	23,033	4,534	162,831
1953 .....	117,311	21,711	15,444	24,402	4,767	183,635
1954 .....	76,649	15,360	16,091	20,133	4,585	132,818
1955 .....	68,483	12,624	10,823	18,961	3,681	114,572
1956 .....	128,245	13,464	11,424	17,244	2,626	173,003
1957 .....	151,738	17,302	19,295	17,347	3,010	208,692
1958 .....	126,204	20,688	20,806	19,556	3,402	190,656
1959 .....	98,251	20,788	12,159	19,542	3,364	154,104
1960 .....	82,506	16,624	12,230	17,687	2,992	132,039
1961 .....	77,939	10,693	11,446	18,425	5,153	123,656
Total .....	1,024,008	172,208	145,346	196,330	38,114	1,576,006

become a common pool upon which to draw as the need may arise. Another advantage is the possibility of co-ordinating maintenance schedules of the interconnected utilities to make the most economical use of combined reserves on the systems.

In 1953, two interconnections were established by the Commission with the Detroit Edison Company in the state of Michigan. These two interconnections terminating at J. Clark Keith Transformer Station in Windsor, and at Sarnia Transformer Station have a combined capacity of 300,000 kva. In 1955 the 25-cycle facilities already in service for the delivery of power to the Niagara Mohawk Power Corporation in the Niagara Falls area were supplemented by the placing in service of a 60-cycle interconnection of 400,000-kva capacity at Sir Adam Beck-Niagara Generating Station No. 2. In 1960 one of the earlier 25-cycle lines to the Niagara Mohawk Power Corporation was modified for use as an interconnection by the installation of a 75,000-kva, 25-cycle regulating transformer at Niagara Parks Transformer Station located near Sir Adam Beck-Niagara Generating Station No. 1. Two interconnections have been established with the Power Authority of the State of New York, one of 300,000-kva capacity at St. Lawrence Transformer Station in 1958, and one of 400,000-kva capacity at Sir Adam Beck-Niagara Generating Station No. 2 in 1961. In fact, the combined Southern Ontario System and Northeastern Division with a peak generating capacity of 5.5 million kilowatts is now interconnected with utilities in Quebec, Michigan, and the northeastern United States, a power network with a total capacity of approximately 36 million kilowatts.

Two other tie-lines complete the list of the Commission's electrical connections across provincial and international boundaries. These are the 75,000-kva interconnection with the Manitoba Hydro-Electric Board at Kenora Transformer Station, placed in service in 1956, and the facilities at Fort Frances which, by connecting the Commission's Northwestern Division through the facilities of the Ontario-Minnesota Paper Company with the parent company in the United States, permit the Commission to export surplus power to International Falls, Minnesota.

During 1961 the Commission brought into service 500,000 kilowatts of installed capacity in two thermal-electric units in the Toronto area, and 108,000 kilowatts of dependable peak capacity in three hydro-electric units in the Northeastern Division.

Extensive engineering investigations have been carried out with respect to a number of potential sites located on the English, Montreal, Abitibi, Mississagi, and White Rivers.

Studies have also been carried out for the development of pumped-storage installations which, like the pumping-generating station near Niagara Falls, will permit the conversion of off-peak power into valuable peak capacity for the system. One such installation at present under consideration would be capable of delivering more than a million kilowatts over the period of peak demand in the Southern Ontario System.



During 1961 the Commission was engaged in the planning and construction of five hydraulic generating stations, in the construction of two conventional thermal-electric stations, and the extension of a third. The five hydro-electric stations were Red Rock Falls Generating Station on the Mississagi River, Otter Rapids Generating Station on the Abitibi River, and the Little Long, Harmon, and Kipling developments on the Mattagami River. The thermal-electric stations were Lakeview and Thunder Bay Generating Stations, and the recently completed extension of Richard L. Hearn Generating Station. Two nuclear power stations at present under construction are also regarded as part of the current program. They are the 20,000-kw Nuclear Power Demonstration station now nearing completion on the Ottawa River at Rolphton, Ontario, and the 200,000-kw Douglas Point Nuclear Power Station being built on the shore of Lake Huron between Kincardine and Port Elgin. Both are being built for Atomic Energy of Canada Limited, but the power produced will be supplied to the Commission's Southern Ontario System.

All the hydraulic generating stations now under construction are located in the Northeastern Region. As increasing amounts of power become available from Otter Rapids Generating Station, and from the three Mattagami River developments, it will be pooled at a 230-kv transformer station near Abitibi Canyon Generating Station. A transmission line of 460-kv construction is being built from Abitibi Canyon to a point near Sudbury, and it is to be operated at 230 kv until 1965, at which time it will be changed to 460-kv operation. From Sudbury, a line,



**DOUGLAS POINT NUCLEAR POWER STATION** — On the shore of Lake Huron between Kincardine and Port Elgin the concrete shell of the reactor building dominates the construction site. The dousing tank, already in position, can be seen rising above the wall level in the middle of the interior. In the foreground, excavation of the cooling water intake is proceeding behind the cofferdam.

again of 460-kv construction, will be built to carry the power some 200 miles south to Toronto. It will be completed as far as Barrie in 1965 and operated at 230 kilovolts. When it is eventually extended to Toronto, the voltage will be increased to 460 kv.

### Office and Service Buildings

Two major projects under construction during 1961 were the research laboratory at A. W. Manby Service Centre, and the new headquarters for the Central Region in Willowdale, just north of Toronto. Strikes in various building trades were responsible for some inconvenience and delay in both these operations. The research laboratory, however, was placed in service in September 1961. It is to be known as the Ontario Hydro W. P. Dobson Research Laboratory in honour of Dr. Dobson, who was the guiding force in the development of the Commission's research activities over a period of more than 40 years. The Central Regional Office is scheduled for service in August 1962.

Electric heating and air conditioning are features of both buildings, the research laboratory incorporating the Commission's first use of heating by the distribution of water from electrically heated boilers. In the laboratory special environmental rooms were designed to provide constant, variable, and moist fog conditions within closely specified limits and under variable conditions of temperature and humidity over temperatures ranging from  $-20$  to  $130$  degrees Fahrenheit.

**Total Mileage of Transmission Lines and Circuits**

Voltage and Structure	Line route or structure miles		Circuit miles	
	At Dec. 31, 1960	At Dec. 31, 1961	At Dec. 31, 1960	At Dec. 31, 1961
<b>SOUTHERN ONTARIO SYSTEM</b>				
230,000-volt.....steel tower.....	2,940.46	3,059.48	3,783.41	4,021.45
230,000-volt.....underground cable.....		0.42		0.84
115,000-volt.....steel tower.....	1,515.62	1,506.35	2,390.44	2,376.04
115,000-volt.....wood pole.....	953.20	958.17	957.81	962.78
115,000-volt.....underground cable.....	27.22	27.37	59.98	60.28
60,000-volt.....steel tower.....	11.17	11.20	12.30	12.33
60,000-volt.....wood pole.....	3.31	3.31	3.31	3.31
44,000-volt and less.wood and steel...	4,836.24	4,804.28	5,330.81	5,278.30
Total—Southern Ontario System...	10,287.22	10,370.58	12,538.06	12,715.33
<b>NORTHERN ONTARIO PROPERTIES</b>				
230,000-volt.....steel tower.....	55.28	55.21	55.28	55.21
230,000-volt.....wood pole.....	251.80	252.01	251.80	252.01
115,000-volt.....steel tower.....	894.75	895.93	1,532.33	1,534.68
115,000-volt.....wood pole.....	1,472.65	1,471.10	1,472.65	1,471.10
69,000-volt.....wood pole.....	203.72	203.72	203.72	203.72
44,000-volt and less.wood pole.....	1,708.79	1,674.81	1,777.03	1,738.54
Total—Northern Ontario Properties.	4,586.99	4,552.78	5,292.81	5,255.26
Total—All systems.....	14,874.21	14,923.36	17,830.87	17,970.59



Additional buildings were erected at Abitibi Canyon Generating Station to accommodate operating staff from the new generating stations in the surrounding area, as well as personnel engaged on the extra-high-voltage transmission project. A two-room addition was completed for the school-house at Cameron Falls Generating Station.

### **Survey Work**

Topographic and location surveys were carried out along 215 miles of new major transmission and subtransmission lines, and at a number of generating station projects. The use of helicopters both for the transportation of personnel and for delivery of material and equipment was a valuable time saver in these operations.

At Head Office, stereoplotting was used to produce topographic plans for a total of more than 190,000 acres in connection with hydraulic project developments, and to supply planimetric detail for a further total of 2,400 acres extending 1,500 feet on either side of the centre line of the proposed route for the northern extra-high-voltage transmission line, south from Sudbary.

## **SOUTHERN ONTARIO SYSTEM**

### **Progress on Power Developments**

In addition to construction work on four major power developments, excavation of the tailrace area at Robert H. Saunders-St. Lawrence Generating Station was carried forward to completion in 1961. The Commission also carried out extensive rehabilitation of the concrete power dam at Eugenia Generating Station in order to restore the Eugenia Lake headpond to its former level as required by the Department of Lands and Forests of the Provincial Government. The appropriate method of sharing the cost is yet to be established.

With the increasing use by the Power Authority of the State of New York of water available for power production at Niagara Falls, the 13-gate control structure in the river up stream is no longer considered adequate for maintaining the required level in the Chippawa-Grass Island pool under the conditions expected to prevail in and after 1962. Following approval by the International Joint Commission, a program was begun to extend the present structure by 5 additional gates, each 100 feet in width.

An upstream cofferdam was built and a downstream cofferdam was partly constructed in 1961. Part of the submerged rock weir, placed during the years 1942 to 1946, was removed. Training walls extending approximately 1,700 feet up stream and 2,000 feet down stream from the control dam on the Canadian shore were almost finished by the end of the year. The walls will facilitate the movement of ice in the upper river and prevent ice concentration at the main Canadian intakes. The control-structure project is scheduled for completion in the summer of 1963.

## LAKEVIEW GENERATING STATION—NEAR TORONTO

<i>Location</i>	—On Lake Ontario just west of Toronto.
<i>Installed Capacity</i>	—1,800,000 kilowatts in 6 units, 60 cycles.
<i>In Service</i>	—Unit 1 on October 30, 1961.
<i>In-service Schedule</i>	—One unit in each year 1962 to 1966, inclusive.
<i>Estimated Cost</i>	—\$217,000,000, including generation, step-up transformation, and high-voltage switching at the site.

The installation of Unit 1 was completed, and the turbo-generator was first synchronized with the system on October 30, 1961. Work continued to the end of the year on commissioning tests, correction of defects, and necessary modifications to prepare the unit for commercial operation. The maximum net output during this period was 150,000 kilowatts.

Engineering and construction of the boiler and auxiliaries for Unit 2 were nearly finished by the end of 1961. The turbo-generator is expected to be ready for preliminary run, and for commissioning tests in the early summer of 1962. The building structure for Units 3 and 4 was begun, and steel erection is under way. The major equipment for these units has been ordered, and manufacturing of the boilers and turbo-generators is proceeding.

Towards the end of the year the contract for the turbo-generators for Units 5 and 6 was awarded.

## RICHARD L. HEARN GENERATING STATION—TORONTO

<i>Location</i>	—Eastern area of the Toronto waterfront.
<i>Installed Capacity</i>	—1,200,000 kilowatts, 60 cycles (400,000 kilowatts in 4 units, and 800,000 kilowatts in 4 units).
<i>In Service</i>	—Unit 1 in 1951; Units 2 and 3 in 1952; Unit 4 in 1953; Unit 5 in 1959; Units 6 and 7 in 1960; Unit 8 in 1961.
<i>Estimated Cost</i> (Units 5, 6, 7, and 8 only)	—\$99,321,000, including generation, step-up transformation, and high-voltage switching at the site.

With the placing in service of Unit 8 on March 22, 1961, the program of construction at the station was virtually complete.

## NUCLEAR POWER DEMONSTRATION—OTTAWA RIVER

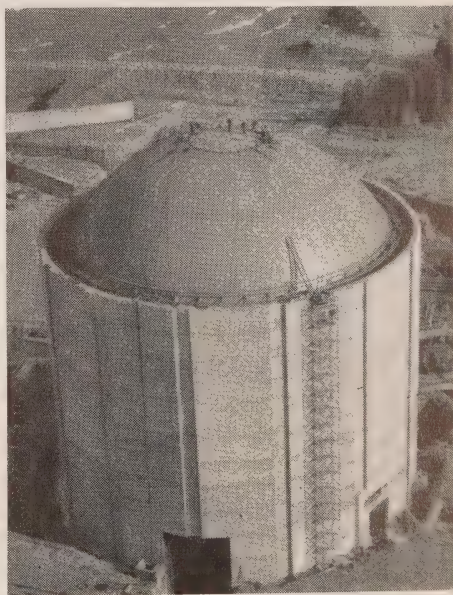
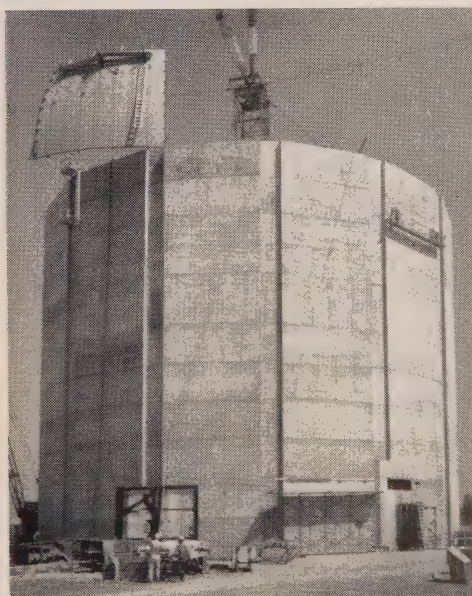
<i>Location</i>	—About 2 miles down stream from Des Joachims Generating Station on the Ottawa River at Rolphton, Ontario.
<i>Installed Capacity</i>	—20,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1962.
<i>Estimated Cost</i>	—\$33,000,000, to be shared by the Hydro-Electric Power Commission of Ontario, Atomic Energy of Canada Limited, and Canadian General Electric Company Limited.

Erection of the turbo-generator unit was completed and the unit was made ready for operation when the reactor-boiler is placed in service for raising steam. Instrumentation and controls for all the conventional equipment were finished, and most of the calibration was complete. Normal station services were for the most part in operation. Meanwhile, finishing work such as road paving, landscaping, and the painting of equipment and interiors of buildings, both in the powerhouse and pump-house, were carried out.

#### DOUGLAS POINT NUCLEAR POWER STATION

<i>Location</i>	—On the shore of Lake Huron between Kincardine and Port Elgin.
<i>Installed Capacity</i>	—200,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1965.
<i>Estimated Cost</i>	—\$81,500,000.

The Commission makes the services of its organization available to Atomic Energy of Canada Limited at cost in order to assist in the design and construction of this, the first full-scale nuclear power development in Canada. After the dousing tank has been installed, and the dome of the roof was erected in October 1961, the reactor building took on an external appearance of relative completion.



DOUGLAS POINT NUCLEAR POWER STATION — These two photographs of the reactor building for the first large-scale nuclear power station in Canada show, at the left, a section of the reactor building dome being hoisted into position by a derrick situated within the building itself, and at the right, the dome completed. While the erection of the dome in October 1961 gave the reactor building itself an external appearance of relative completion, the major part of construction at this complex project, and much of the other design work being carried out by the Commission and Atomic Energy of Canada Limited still remain to be completed.



Actually, the major part of the construction work at this complex project remains to be done.

Paving of the 6 miles of road linking the station site with Highway 21 north of Kincardine was completed during the summer of 1961.

### **Transformer Stations**

In order to supply increasing loads and to provide improved service security, substantial installations of new transformer capacity were in progress at a number of points throughout the Southern Ontario System during 1961. In addition to installations to increase the capacity of stations already in service, four new stations were completed during the year and engineering or construction was in progress for a number of others.

#### **Stations in the Western, West Central, and Niagara Regions**

New transformer capacity, adequate to meet the expected growth of loads in the Windsor area for a number of years, was provided by the installation of two 83,333-kva, 115—27.6-kv transformers at Windsor-Crawford Transformer Station.

In the Niagara Region, two new 115—27.6-kv transformer stations were placed in service during 1961. One, located near Elmira, relieves the load on Guelph Transformer Station, and provides improved service security to Elmira, Fergus, and Elora. It has a capacity of 27,000-kva at present, includes provision for an ultimate installation of two 41,666-kva transformers, and is controlled from Detweiler Transformer Station. The other, with an installation of two 83,333-kva, 115—27.6-kv transformers, was constructed on the site of the original 115—13.8-kv Dundas Transformer Station. The loads of the Dundas Public Utilities Commission and of an industrial customer have been converted to supply at 27.6 kv, and the equipment of the original station has been removed.

In the Hamilton area, a program to increase the capacity of Hamilton-Gage Transformer Station was completed in 1961 with the installation of a fourth 56,000-kva, 115—13.8-kv transformer. The station supplies most of the loads of heavy industry in the city. At Hamilton-Mohawk Transformer Station, which supplies loads in the southern part of the city, two 66,666-kva, 115—13.8-kv transformers were installed to replace the two 33,333-kva transformers previously in service. A site has been purchased east of the city, and engineering design is under way for a new station to be known as Hamilton-Lake Transformer Station. The station is expected to be ready for service by the fall of 1963.

At Brantford Transformer Station, two 83,333-kva, 115—27.6-kv transformers were installed to replace the two smaller transformers previously in service, and the temporary 60-cycle station, which had been constructed to meet the requirements of the frequency standardization program, was dismantled. With its increased capacity, the station will carry a greater share of the loads of Brantford and the surrounding district, which are also supplied from Brant Transformer Station. At St. Thomas Transformer Station, two 31,000-kva, 115—13.8-kv transformers were installed, and two of the three 15,000-kva, 115—13.8-kv transformers previously in use were reconnected for 27.6-kv operation. Equipment was installed also to permit supervisory control of the station from E. V. Buchanan Transformer Station.



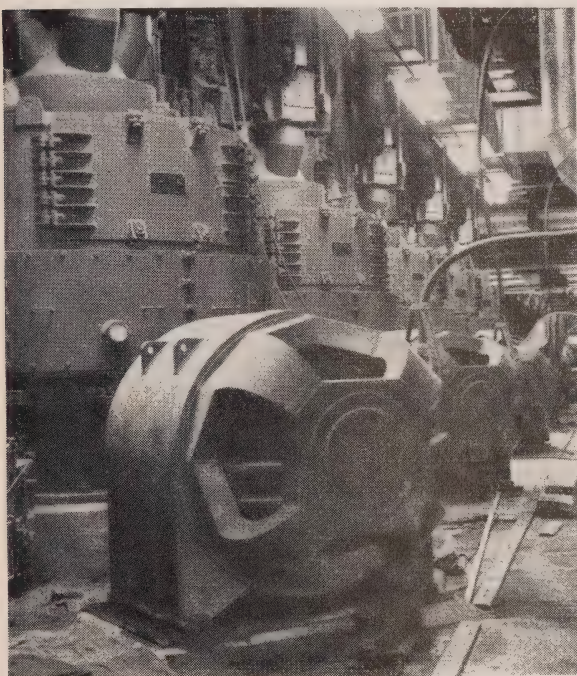
## Stations in the Central Region

In the Central Region, four new transformer stations were under construction during 1961. Two of these, one at present, and one eventually to be on the 230-kv network, were completed and placed in service before the end of the year.

Cooksville Transformer Station, with an initial installation of two 83,333-kva, 230—27.6-kv transformers and provision for the later addition of four similar units, was placed in service in December. It supplies the rapidly increasing load in the Toronto Township area, relieving the load on A. W. Manby Transformer

Station. At Buttonville Transformer Station, which was placed in service in October, the initial installation consists of two 83,333-kva, 115—27.6 kv transformers. Eventually the station will be converted to supply at 230-kv, and two additional transformers will be installed. The station supplies loads in Richmond Hill, Markham, Stouffville and their environs, relieving loads at Scarborough and Toronto-Bathurst Transformer Stations. It is operated by remote control from Scarborough Transformer Station.

Construction continues at Toronto-Sheppard and Toronto-Runnymede Transformer Stations, both scheduled for service in 1962. Two 80,000-kva, 115 — 13.8 - kv transformers were installed during 1961 at Toronto - Teraulay Transformer Station. The increase in the capacity of the station was made necessary by



**LAKEVIEW GENERATING STATION** — In the foreground is one of the 200-hp electric motors used to operate the coal pulverizers shown immediately behind. When the pulverizers have reduced the granular coal to the consistency of fine talcum powder, it is blown with preheated air into the boiler combustion chamber. The six pulverizers associated with each 300,000-kw unit can grind coal of an aggregate weight of 110 tons per hour.

the rapidly increasing summer peak load in downtown Toronto, largely the result of the installation of air-conditioners.

At A. W. Manby Transformer Station, the installation of two 83,333-kva, 230—27.6-kv transformers is proceeding. Increased 27.6-kv capacity at the station is required to meet expanding loads in the area, and to relieve the load on Richview Transformer Station. Terminal facilities, which included six 20,000,000-kva circuit-breakers, were installed at the station for two new 230-kv circuits over which power generated by the first two units at Lakeview Generating Station will be received. As

part of a continuing program to make provision for the increasing 230-kv short-circuit interrupting requirements in the Toronto area as units are placed in service at Lakeview Generating Station, six 20,000,000-kva circuit-breakers were installed at Richview Transformer Station, and three 15,000,000-kva circuit-breakers were installed at Cherrywood Switching Station to replace smaller units.

Two new transformer stations are to be constructed to meet increasing requirements from industrial and residential development near Bronte and in the north-eastern sector of North York Township. Engineering is in progress for the initial installation of two 83,333-kva, 115—27.6-kv transformers at Bronte Transformer Station, and of two 125,000-kva, 230—27.6—13.8-kv transformers at Toronto-Leslie Transformer Station. The latter is planned for an ultimate eight units of corresponding capacity, and the Bronte station eventually for six 125,000-kva, 230—27.6-kv units.

### **Stations in the Georgian Bay Region**

New 230-kv facilities have been installed at Hanover Transformer Station in order to reinforce the 115-kv system and to supply increasing loads in the Palmerston, Hanover, and Owen Sound areas. The new facilities include an initial installation of two 115,000-kva, 230—115-kv autotransformers, and provision for an ultimate installation of four 225,000-kva, 230—115-kv autotransformers, and terminal facilities for eight 230-kv circuits. Eventually, power from Douglas Point Nuclear Power Station will be supplied to the 230-kv system at Hanover Transformer Station. At present, 230-kv power reaches the station over a new double-circuit transmission line tapped into the 230-kv circuits between Detweiler and Essa Transformer Stations at a point near Orangeville.

Construction is under way at Barrie Transformer Station for the installation of two 83,333-kva, 115—44-kv, three-phase transformers to replace the two banks of three 7,000-kva, single-phase transformers now in service at the station. In order to provide increased service security, a second 115-kv transmission line is being constructed from Essa Transformer Station, and switching is being installed so that each of the new transformers can be operated independently and supplied by either of the two lines from Essa Transformer Station. The new facilities will be ready for service in 1962.

### **Stations in the East Central and Eastern Regions**

In order to meet increasing requirements for power in the Ottawa area, new installations were completed during 1961 at Ottawa-National Research, and Ottawa-Slater Transformer Stations, the latter involving the installation of a 66,666-kva, 115—12-kv transformer which doubled the capacity of the station. Additional transformer capacity will be provided at Ottawa-Overbrook Transformer Station, where construction is under way for the installation of a 66,666-kva, 115—12-kv transformer with double secondary windings. At Chalk River Transformer Station, additional capacity to supply the load of Atomic Energy of Canada Limited was provided by the installation of a 25,000-kva, 115—2.4-kv transformer.

At Frontenac Transformer Station, which supplies loads in the Kingston area, the capacity of each of the three 115—44-kv transformer banks was increased from 21,000 to 25,000 kva by the installation of additional forced-air cooling.



Further capacity to meet growing loads in the area will be provided by the construction of a new 115—44-kv transformer station west of Kingston. Engineering design is now proceeding, and the initial installation of one 83,333-kva transformer is expected to be ready for service in 1963. At Smiths Falls Transformer Station, one of the oldest in the eastern part of the province, station facilities will be rehabilitated and two additional banks of transformers, similar to the 21,000-kva, 115—44-kv bank now in service, will be installed. The additional banks will be moved from Barrie Transformer Station, and they are expected to be ready for service by the fall of 1962.

Operation with the international interconnections closed at Cornwall and at Niagara Falls normally results in a flow of power from Ontario to New York State at Cornwall, and from New York State to Ontario at Niagara Falls. As the units at the new generating station of the Power Authority of the State of New York at Niagara Falls are placed in service, the flow of circulating power will increase, and under certain conditions of generation and load it will overload transmission and interconnection facilities, making it necessary to open the interconnection at Cornwall. In order to provide a means of regulating the flow of power over the interconnection, a 300,000-kva, 230-kv, phase-shifting transformer will be installed at St. Lawrence Transformer Station. This will make it possible for the interconnection to be kept closed, thus permitting transmission facilities both in Ontario and in New York State to be used more effectively. The cost of the transformer, which will be larger than any unit of the kind known to be in use, will be shared equally by the Commission and the Power Authority.

### Transmission Lines

The 230-kv facilities to transmit the output from the first two units at Lakeview Generating Station to A. W. Manby Transformer Station were completed in July 1961. They consist of two underground circuits with a route length of slightly less than one-half mile, and approximately five and one-half miles of overhead double-circuit transmission line. The underground circuits pass under the Queen Elizabeth Way and a shopping centre. They mark the first use by the Commission



**CORONAPHONE** — This easily portable unit, consisting of a highly sensitive microphone combined with a directional reflector, was developed for the accurate location of the sources of corona on high-voltage transmission lines. It can be operated in the field by one man.

of directly buried cable for the transmission of power at 230 kv. Each of the six cables has a copper conductor of 2,750,000 circular mils in cross-sectional area.



**STRINGING CONDUCTORS ON BRIDGE-TYPE TOWERS** — A conductor is being pulled into position on the 230-kv line from Lakeview Generating Station to A. W. Manby Transformer Station. The bridge-type towers, recently introduced for use by the Commission, permit a closer horizontal spacing of conductors than is possible with the conventional centre-shaft tower. The design will permit extension to carry additional circuits when required. These features make the bridge-type towers particularly suitable for use in built-up areas where wide rights of way are not easily obtainable.

They are oil-filled, lead-sheathed, and have an outside diameter of four inches. These are the largest yet to be installed on the Commission's systems. The overhead circuits are carried on bridge-type transmission towers. On these towers two transmission circuits are suspended from three crossarm girders supported by two vertical shafts. The structures will be extended when necessary by the addition of three girders and one vertical shaft for each additional pair of circuits. The towers on the Lakeview Generating Station to A. W. Manby Transformer Station line will eventually be extended to carry six or eight circuits. While it is more costly to construct, the bridge-type tower is economical for use where land costs are high, as it permits a closer horizontal spacing between circuits than

is possible with the conventional centre-shaft tower.

Construction was completed in December 1961 for a 230-kv double-circuit transmission line, 48 miles in length, between Hanover Transformer Station and a point near Orangeville on the Essa Transformer Station to Detweiler Transformer Station line. The line supplies power to the new 230—115-kv facilities at Hanover Transformer Station. Eventually it will form part of the circuits over which power from the Douglas Point Nuclear Power Station will be delivered to the Commission's transmission network.

The line was designed with a view to reducing the chance of a serious interruption of service occurring as the result of sleet and ice conditions. The two overhead ground cables are supported, one at the tower peak and the other directly below it at the middle crossarm. As compared with the standard arrangement used on older transmission lines, this new arrangement of ground cables will provide greater lateral clearance between the conductor phases and ground cables sagging under the weight of ice. The design of the towers also provides for the possible eventual insulation of the ground cables. This would permit electric currents to be passed through the cables in order to melt ice formations.



Engineering design and surveying are in progress for an extra-high-voltage transmission line to be constructed between Essa Transformer Station and Hanmer Transformer Station. To be completed by 1965, the line will be operated initially at 230 kv with a connection to R. H. Martindale Transformer Station. Eventually, it will form part of the extra-high-voltage system over which power generated at stations in the James Bay watershed will be transmitted at 460 kv to the Toronto area.

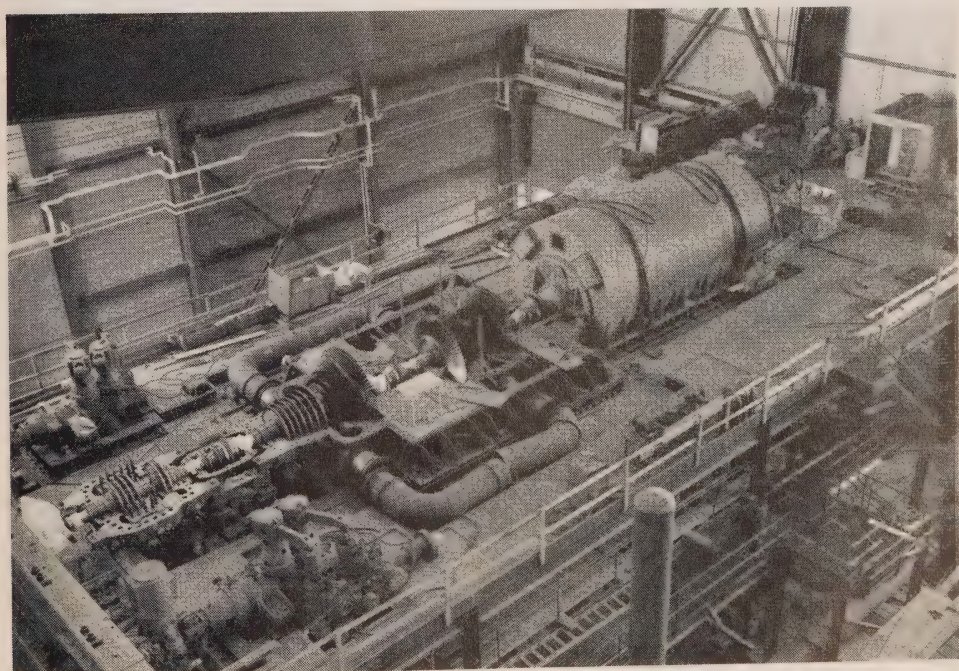
## NORTHERN ONTARIO PROPERTIES

### Progress on Power Developments

Brief progress reports are given in the following paragraphs on construction at Thunder Bay Generating Station in Fort William, at Red Rock Falls Generating Station on the Mississagi River, and at Little Long, Harmon, and Kipling Generating Stations on the Mattagami River. A more complete report is given for Otter Rapids Generating Station, which was placed in service in September 1961.

#### THUNDER BAY GENERATING STATION—FORT WILLIAM

<i>Location</i>	—North shore of the Mission River in Fort William.
<i>Installed Capacity</i>	—100,000 kilowatts in 1 unit, 60 cycles.
<i>In-service Schedule</i>	—1962.
<i>Estimated Cost</i>	—\$25,250,000, including generation, step-up transformation, and high-voltage switching at the site.



THUNDER BAY GENERATING STATION — The installation of this 100,000-kw unit was nearly complete at the end of 1961. It will be given its initial run for test purposes in April 1962.

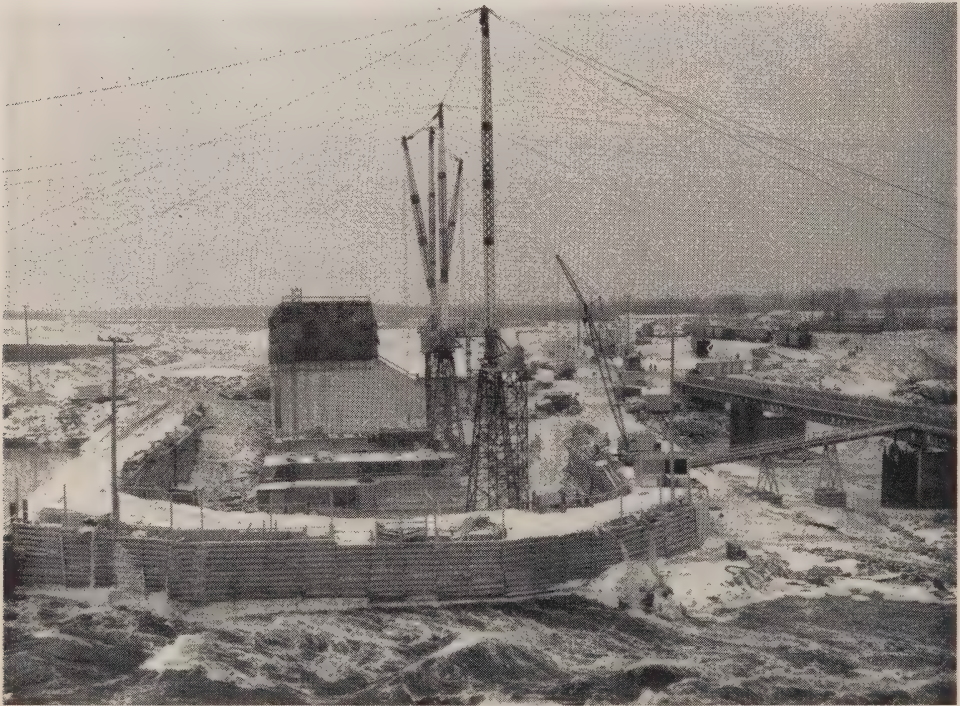
The buildings were completed in 1961. By the end of the year all of the equipment had been installed, and preliminary runs had been made on most of the pumps, motors, and fans. The coal-handling system was completed and used for unloading and stockpiling the coal required for the test runs.

Testing of the boiler and turbine was scheduled for early in 1962.

#### RED ROCK FALLS GENERATING STATION—MISSISSAGI RIVER

<i>Location</i>	—14 miles northeast of Thessalon, and 15 miles down stream from George W. Rayner Generating Station.
<i>Dependable Peak Capacity</i>	—40,000 kilowatts in 2 units, 60 cycles.
<i>Rated Head</i>	—93 feet.
<i>In Service</i>	—Unit 1 in 1960; Unit 2 in 1961.
<i>Actual Cost at December 31, 1961</i>	—\$16,831,000 including generation, step-up transformation, and high-voltage switching at the site.

Unit 2 was placed in service on January 13, 1961 to complete the station.



**CONSTRUCTION FOR LITTLE LONG GENERATING STATION** — In the diversion section area, a gravity structure to include two temporary diversion ports and five temporary sluices was built behind the protection of the cofferdam keeping out the rushing waters of the Mattagami River. Following the completion of this section, the open ports and sluices will carry the flow in the river while the channel in the foreground is cofferdammed to permit construction of part of the dam linking the sluiceway structure with the powerhouse on the right bank of the river some 200 yards to the east.



## LITTLE LONG GENERATING STATION—MATTAGAMI RIVER

*Location* —About 42 miles north of Kapuskasing, and 4 miles up stream from Smoky Falls.

*Dependable Peak*

*Capacity* —114,000 kilowatts in 2 units, 60 cycles.

*Rated Head* —90 feet.

*In-service Schedule* —The autumn of 1963.

*Estimated Cost* —\$50,000,000, including generation, step-up transformation, and high-voltage switching at the site.

Access and construction roads were completed. A route has been established for the 27-mile service road from Abitibi Canyon Generating Station to Little Long Generating Station. Construction will begin in 1962.

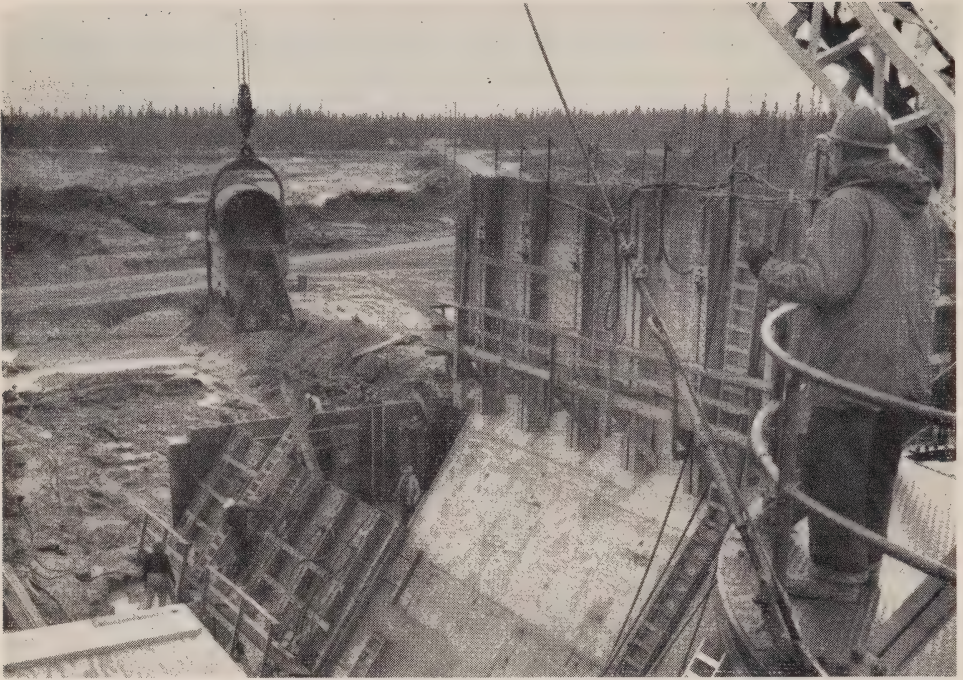
Over 20 per cent of the headpond area had been cleared by the end of 1961, and excavation had been started for the foundations of the headworks and powerhouse, and for the tailrace channel. Foundation excavation for the sluiceway part of the river section had begun, and concreting of the west gravity wall was almost complete.

At the Adam Creek control dam concreting was finished for the sluiceway section, for the west gravity section, and for the downstream apron. Concreting of the east gravity section was almost complete. Approximately 70 per cent of the western section of the dike was constructed.



ADAM CREEK CONTROL DAM AT LITTLE LONG GENERATING STATION — This eight-sluice concrete structure, here shown in seeming isolation in northern Ontario muskeg, will be an important element in reducing construction costs at the three new Mattagami River power developments. Joined to the Little Long Generating Station powerhouse structure by 1.5 miles of earth dike, the control structure will channel flood waters into Adam Creek to bypass all three stations and flow into the Mattagami River down stream from Kipling Generating Station. The Commission thus avoided the necessity of building extensive control structures at each of the power developments, and the provision in the construction procedures for flood-water control.





**POWER DEVELOPMENT AT LITTLE LONG RAPIDS** — The four-cubic-yard bucket shown in the picture is placing concrete for the gravity-dam section on the right bank of the Mattagami River. Because the immediately surrounding area is predominantly low-lying muskeg, a total of  $5\frac{1}{2}$  miles of dikes is required to contain the head pond. They will have a maximum height of 60 feet, and will require the placing of about 3.5 million cubic yards of earth fill.

The importance of this structure may be gauged by the potential savings which it makes possible in the total construction costs of the three new Mattagami River developments. Adam Creek has its inauspicious start near the Mattagami River about a mile up stream from Little Long Rapids and joins the river 20 miles down stream, north of the site of Kipling Generating Station. Early in the planning stages for these stations it was recognized that after the creation of the headpond at Little Long Generating Station, Adam Creek would provide a natural diversion channel for carrying unusually heavy flows which may occur as flash floods or at the time of the spring freshet. In the absence of control dams up stream, control of these excess flows via Adam Creek will enable the Commission to achieve estimated economies of up to \$13,000,000 in reduced sluiceway construction and cofferdam costs at the generating station sites.

**HARMON GENERATING STATION** (Dependable peak capacity 110,000 kilowatts in 2 units — estimated cost \$29,500,000).

and

**KIPLING GENERATING STATION** (Dependable peak capacity 132,000 kilowatts in 2 units — estimated cost \$31,300,000).

These two stations will be located on the Mattagami River down stream from Smoky Falls. They are scheduled for service in 1965 and 1966 respectively.



During the year, clearing was begun for the 9-mile service road from Little Long Generating Station to the Harmon Generating Station site, and the route was established for an additional 3.5 miles of road to the site of Kipling Generating Station.

OTTER RAPIDS GENERATING STATION—ABITIBI RIVER

<i>Location</i>	—60 miles northeast of Kapuskasing, and 23 miles down stream from Abitibi Canyon Generating Station.
<i>Dependable Peak Capacity</i>	—172,000 kilowatts in 4 units, 60 cycles.
<i>Rated Head</i>	—107 feet.
<i>In Service</i>	—Unit 1 on September 26, and Unit 2 on October 24, 1961.
<i>In-service Schedule</i>	—Two units in 1963.
<i>Estimated Cost</i>	—\$35,554,000, including generation, step-up transformation, and high-voltage switching at the site.

From its head at the western end of Lake Abitibi, the Abitibi River follows first a westward and then a northward course, with a total length of approximately 350 miles and a total drop in elevation of 821 feet. It joins the Moose River at a point about 30 miles from the southwestern shore of James Bay. The watershed, located partly in the Ontario Districts of Cochrane, Temiskaming, and Sudbury, and partly in the Province of Quebec, covers a total area of 11,300 square miles.

On the upstream half of the river, three generating stations owned by the Abitibi Power and Paper Company are located at Island Falls, Iroquois Falls, and Twin Falls. Abitibi Canyon Generating Station, the first Commission-owned station on the river, is located down stream from the three privately owned stations at a point about two-thirds of the way between the source and the mouth of the river.

In the years between 1945 and 1957, the Commission made a number of surveys and studies of the remaining potential power sites on the river. These studies indicated that three sites, Otter Rapids, Coral Rapids, and Lower Nine Mile Rapids were particularly suitable for development, and in December 1958 a decision was made to proceed with the construction of a generating station at Otter Rapids, 23 miles down stream from Abitibi Canyon Generating Station.

Construction at the site was begun in 1959, and by the fall of 1961 the completion of the first stage of the development permitted the first two generating units to be placed in service. Another two units are scheduled for service in 1963. The necessary minimum provision is also being made for the possible later installation of four more units.

At Otter Rapids Generating Station, the Abitibi River carries the run-off from an area of 8,761 square miles. This area will be increased by 1,050 square miles when a project for the diversion of the Little Abitibi River is completed in 1963. The Little Abitibi River drains the eastern part of the Abitibi River watershed.

and joins the main stream approximately 30 miles down stream from Otter Rapids Generating Station. It is to be diverted into Newpost Creek, which flows into the Abitibi River about midway between Abitibi Canyon and Otter Rapids Generating Stations. The diversion will be accomplished by the construction of a control dam on the Little Abitibi River, and approximately two miles of canals. River-flow will thus be increased, not only at Otter Rapids Generating Station, but also at the potential power sites at Coral Rapids and Lower Nine Mile Rapids further down stream.



OTTER RAPIDS GENERATING STATION — Detail of General Plan sketched on a background photograph of the development.

### General Description

The power dam, an 1,800-foot-long concrete and earth-fill structure, was constructed near the foot of Otter Rapids. Because the river banks are high and steep, it was possible to contain the headpond, which extends 23 miles up stream to the tailrace of Abitibi Canyon Generating Station, without the construction of block dams or earth dikes. At an elevation of 401 feet the headpond covers an area of 2,320 acres. With a drawdown of 6 feet, it provides a storage capacity of 13,450 acre-feet.

The concrete section of the dam is approximately 1,100 feet long. It includes a conventional headworks structure for 8 generating units, ten 22-foot-wide sluiceways, and a log-chute headblock. Earth-fill sections join each end of the concrete dam to the river banks.

The ten sluiceways are each 32 feet 6 inches high. Two are motor-operated, and hoisting service for the other eight is provided by the headworks gantry-crane. With the headwater at an elevation of 401 feet and the sluiceway wide open, each sluiceway can pass a flow of 12,800 cfs.

A concrete curtain wall prevents the flow of water through the log-chute headblock at present, but provision is included in the structure for the installation of a taintor-type gate and a log-chute if they are required in the future.

The headworks is conventional in design, and consists of double inlet intakes for each of the eight units that eventually may be installed at the station. Headgates have been installed in the inlet openings of all eight intakes, and the intakes for Units 1 and 2 have been completed with the installation of trash-racks and individual electric hoists for raising and lowering the headgates. An electric gantry-type travelling crane provides hoisting service for the headworks and all other sections of the dam.

Two steel penstocks, each 24 feet in diameter and encased in concrete, convey the flow to the scroll-cases for Units 1 and 2. Penstocks for Units 3 and 4 also have been installed. The scroll-cases are formed from rolled steel plates, which were welded into large segments before shipment to the site, where final assembly and welding were carried out. Welds made in the field were stress-relieved, and were X-rayed in order to detect subsurface cracks and foreign matter which might weaken the joints. Elbow-type draft-tubes carry the discharge from the scroll-cases to the tailrace. Hoisting service for the draft-tube service gates is provided by an outdoor electric hoist which runs on a rail suspended from extensions to the powerhouse superstructure frame.

The generating-unit and erection-bay areas are enclosed by insulated aluminum siding panels supported by a rigid steel frame 207 feet long and 67 feet wide. The roof deck consists of galvanized steel panels, insulated with fibreboard and covered with felt and gravel. Two 105-ton overhead service cranes run on rails which are supported 21 feet 10 inches above floor-level by the superstructure columns. Each crane is equipped with a 15-ton auxiliary hoist.

The station will be operated for the most part as a peak-load plant. Under this arrangement the generating units will be operated at full gate for two hours on the average each day at the time of maximum demand on the system, using in this short time the major part of the water ponded during a 24-hour period under minimum-flow conditions at the station. It is estimated that during the two-hour period, under these conditions, the headpond level will fall one foot with two units running, and two feet with four units running. Under better than minimum-flow conditions the station could of course be operated at maximum output over longer periods of the day.

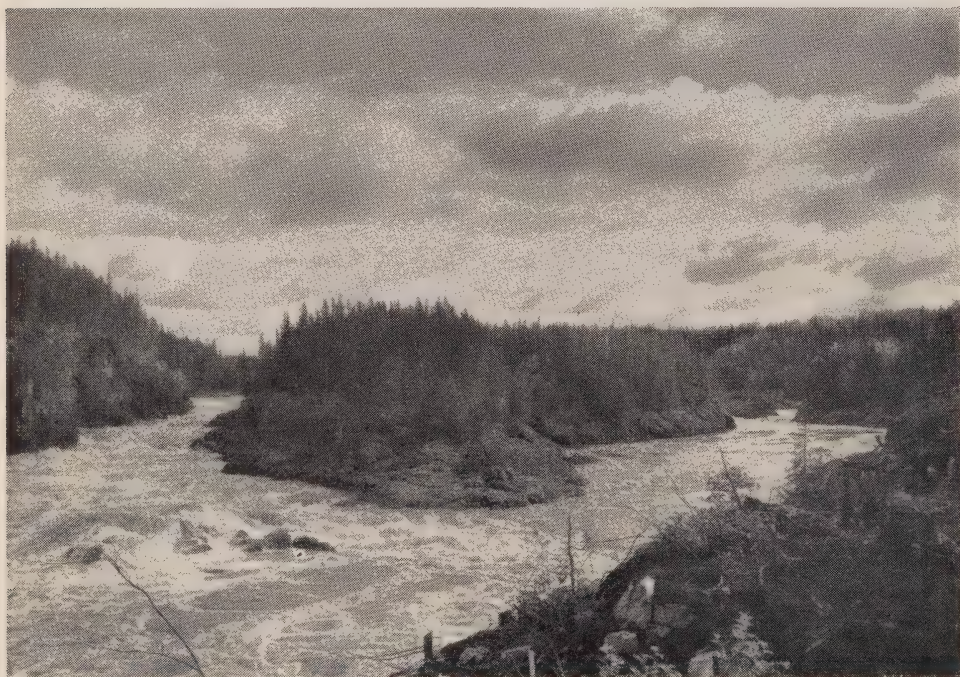
### **Construction Procedure**

A large part of the power dam was constructed on dry land above the normal high-water level of the river. This included the headworks structure for Units 1 to 4, which was built on the west bank, the corresponding structure for Unit 7, which was built on an island, and the sluiceway structure on the east bank.



The small island which originally divided the river greatly facilitated dewatering of the site for the construction of the remaining parts of the dam. In the summer of 1959 cofferdams were built in the west channel. The substructure for the headworks of Units 5 and 6 was then constructed to a height adequate for normal river flooding. Four diversion ports were included in this section. During March and April 1960, the cofferdams were removed, and the spring freshet flowed through these diversion ports as well as through the east river channel. Cofferdams were then erected in the east channel, and while the headworks for Unit 8 and part of the gravity sections were constructed in the dewatered area between them, the full flow of the river passed through the diversion ports in the west channel section. The east channel cofferdams were removed in March 1961. In August 1961, when construction was nearing completion, gates were lowered in the diversion ports, the headpond was filled, and the ports were plugged with concrete.

Precambrian bed-rock, composed chiefly of gneiss, forms the base for the foundations of the dam. Major faults in soft rock zones underlie each of the river channels at the site. Sound foundations were ensured, however, by careful excavation and pressure grouting in the fault zones. The river banks at the site are formed of layers of dense glacial soils with a total thickness of approximately 100 feet. These soils were found to be suitable both as foundations and as construction material for the earth-fill sections of the dam.



OTTER RAPIDS GENERATING STATION SITE — This picture, taken in 1958, shows the north end of the island dividing the Abitibi River into two channels at the Otter Rapids Generating Station site. The two channels and the island were effectively used in the construction procedure. They are barely recognizable in the picture on the opposite page.



Forest cover in the area consists of poplar, jack pine, balsam, spruce, and white birch. However, because of the height and steepness of the river banks, the area covered by water up stream from the dam did not increase greatly with flooding, and it was necessary to clear only 180 acres for the headpond. Sixty acres were cleared at the dam site.

Access to the site was provided by the construction of two short roads. These lead from the main line of the Ontario Northland Railway, which passes within a mile of the station.

### **Mechanical Equipment**

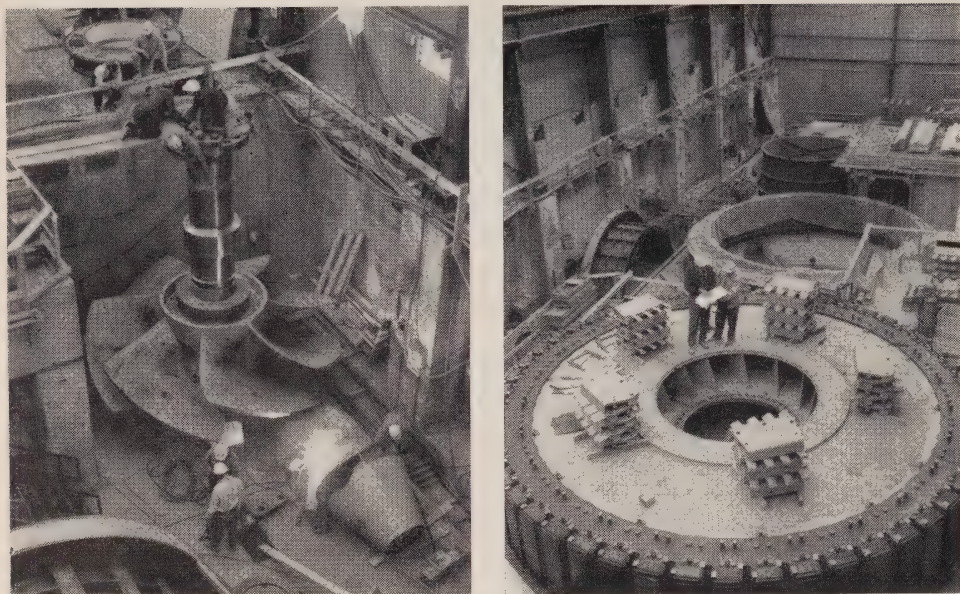
The turbines, two now in service, and two scheduled for service in the fall of 1963, are products of Canadian Allis-Chalmers Limited. Each is rated at 60,000 bhp, operating at 138.4 rpm, and with an estimated discharge flow of 5,700 cfs under normal operating conditions. They are of the fixed-blade propeller type, which, when compared with other types of turbine, has the advantages of simple design, less requirement for maintenance time and expense, and reduced costs for the associated generators.

Prior to 1950, the fixed-blade propeller-type turbine was considered to be economical only for use in installations where the head was 66 feet or less. More



OTTER RAPIDS GENERATING STATION — In July 1961, water was still flowing through the four diversion ports as the station was in the final stages of the power dam construction. A large part of the structure was built on dry land above the normal river level, parts of the headworks on the left bank of the river and on the island, and the ten-sluice structure on the right bank. Subsequently the west and east channels were cofferdamed in turn to permit the completion of the headworks and bulkhead sections.





OTTER RAPIDS GENERATING STATION — Left: One of the fixed-blade propellers for the turbines is shown during assembly just prior to the addition of the nose cone. Each of the two turbines now in service is rated at 60,000 bhp. Recent improvement in design permits the use of this type of turbine at heads greatly in excess of 66 feet, a height formerly regarded as a maximum. Right: The generator-rotor for Unit 1 is shown during assembly in July 1961. Each of the 46,000-kva units may be operated either as a generator or as a synchronous condenser.

recently, however, new designs have been developed for use at higher heads, and fixed-blade propeller-type turbines have been installed at Robert H. Saunders-St. Lawrence Generating Station, where the head is 81 feet, and at Red Rock Falls Generating Station, where the head is 93 feet. The success of these applications led to specifications for this type of turbine at Otter Rapids Generating Station, where the rated head is 107 feet.

The turbines are provided with electro-hydraulic governors, a new type first used by the Commission at Red Rock Falls Generating Station. In contrast with the conventional mechanical type, the electro-hydraulic type of governor offers both ease of adjustment for optimum settings, and dependable joint control of several units or stations.

### Electrical Equipment

For each of the four units now scheduled for service at Otter Rapids Generating Station, a 13.8-kv, 3-phase, 60-cycle generator is being supplied by the Canadian General Electric Company Limited. Each generator, rated at 46,000 kva, 0.95 power factor lagging, operates at 138.4 rpm. Each is equipped to operate either as a generator or as a synchronous condenser.

Two oil-immersed, forced-air-cooled transformers, manufactured by the Canadian Westinghouse Company Limited, have been installed to provide for transformation of the generator output from 13.8 kv to 138 or 230 kv. At present,

one of these is in use to step up the output from the first two units to 138 kv for transmission over a new line to Abitibi Canyon Generating Station. The other is installed as a spare. When the installation of the third and fourth generating units has been completed, the two transformers will be used to step up the output from all four generating units to 230 kv for transmission to the 230—460-kv Pinard Transformer Station now under construction.

The station is controlled from Abitibi Canyon Generating Station by means of a microwave radio link. Eventually it will be controlled from Pinard Transformer Station. The main and duplicate microwave radio has 25 multiplex channels which at present are used for telemetering, supervisory control, transferred trip, and voice, and in the future will also be used for load control. The supervisory equipment provides for control of remote operations at a maximum of 70 points. Although not all of the control points are used, supervision by lights and “on demand” telemetering are associated with each of them. Megawatts and megavars for each unit, and for the station as a whole are telemetered continuously, and twenty-two quantities are telemetered on the “on demand” basis. A total of 138 annunciation points, of which 113 are in use at present, indicate such occurrences as relay operations, over-temperatures, low oil-levels, and other data required for the successful operation of the station.



**COLLAPSIBLE TOWER FOR USE IN SURVEY OPERATIONS**—This triangular, aluminum-alloy tower, developed by the Commission in co-operation with the manufacturers, can be extended in 10-foot sections to a height of 60 feet in order to increase the range of line-of-sight survey in hilly or wooded country. A 60-foot tower weighs 300 pounds. Survey crews have actually moved completely assembled 30-foot towers suspended upright beneath helicopters.

### **Transformer Station and Transmission Lines**

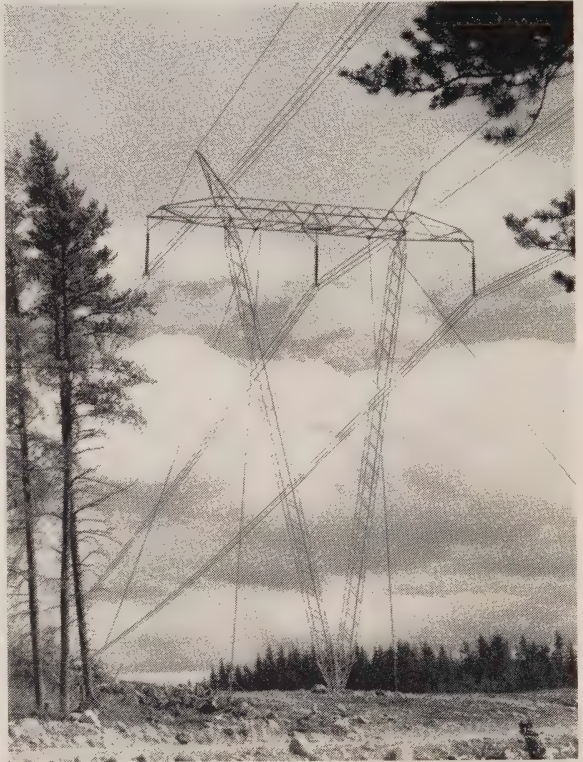
In order to provide improved service security and increased transformer capacity to supply loads in Sudbury and the surrounding district, a third 41,000-kva, 115—44-kv transformer was installed at R. H. Martindale Transformer Station. Increases in capacity were made also at Kapuskasing Transformer Station, where a second 8,000-kva transformer was installed, and at Timmins



Transformer Station, where the capacity of each of the two 60-cycle, 115—27.6-kv transformer banks was increased from 14,500 kva to 18,000 kva by the installation of forced-air cooling.

In the Northwestern Region, improved service security was provided by the installation of high-speed power-line carrier relaying on the key interconnecting 115-kv circuits linking Dryden, Moose Lake, Port Arthur No. 1, and Port Arthur-Birch Transformer Stations. In Fort William, a short, 115-kv, double-circuit transmission line was built from Thunder Bay Generating Station to Abitibi Junction. To be used eventually to deliver power from the generating station to the Northwestern Division system, the line was used initially to deliver power to the generating station for testing purposes.

Construction began in 1961 on the 228-mile extra-high-voltage transmission line and the other transmission and transformation facilities which will be used to collect power generated at the new stations now being developed in the James Bay watershed, and to deliver it to Hanmer Transformer Station, which will be constructed as the southern terminal of the line near Sudbury. Scheduled for completion in 1963, the line, initially connected with the power system at R. H. Martindale Transformer Station, will be operated at first at 230 kv. Eventually the voltage will be increased to 460 kv. Present plans involve the extension of this line from Hanmer Transformer Station southward to the Toronto area for operation in 1966. Engineering design and construction were in progress during 1961 for Pinard Transformer Station, the northern terminal of the line, near Abitibi Canyon Generating Station.



During 1961 the Commission placed orders for approximately 800 V-shaped towers of this type for use on the EHV line north from Sudbury to power developments in the James Bay watershed. Guyed steel towers are about two-thirds the weight of conventional self-supporting towers, and guyed aluminum towers less than half the weight of guyed steel towers. Economies will result from lower transportation and labour costs in handling guyed towers as compared with self-supporting towers of comparable quality.

South of Timmins and the site of the future Porcupine Transformer Station, 36 miles of the transmission-line right of way were cleared. For the northern section, between Timmins and Pinard Transformer Station, the major part of the



right of way was cleared, and 100 transmission towers were delivered to the site in preparation for the erection of the line.

The use of guyed, V-type transmission towers on this line represents a significant change in the Commission's transmission tower design practice, and follows a trend which has been developing among electrical utilities, both in Europe and in North America. Design studies conducted by the Commission indicated that for the requirements of the extra-high-voltage line, with foundations and accessories included, a conventional self-supporting steel tower would weigh approximately 19,000 pounds, and a guyed steel tower only 11,000 pounds. This reduction in weight, and the relative ease with which the guyed towers can be transported and erected will be of distinct advantage in the remote and rugged area where the line is being constructed. In comparison with the self-supporting tower, the guyed tower is expected to result in an over-all saving in installed cost. Of the 828 towers to be installed on the line, 100 will be fabricated of aluminum, and the balance of steel. Though the cost of the aluminum tower members is greater, their lighter weight will permit savings in erection costs. The erection of both types of guyed towers on the same line will enable the Commission to make a detailed comparison of the installed costs of towers fabricated from the two materials.

A program of full-scale tests in the field was conducted in order to develop guy anchorages and methods for their installation which will be suitable for use in the relatively inaccessible north country where maintenance costs must be kept at a minimum.

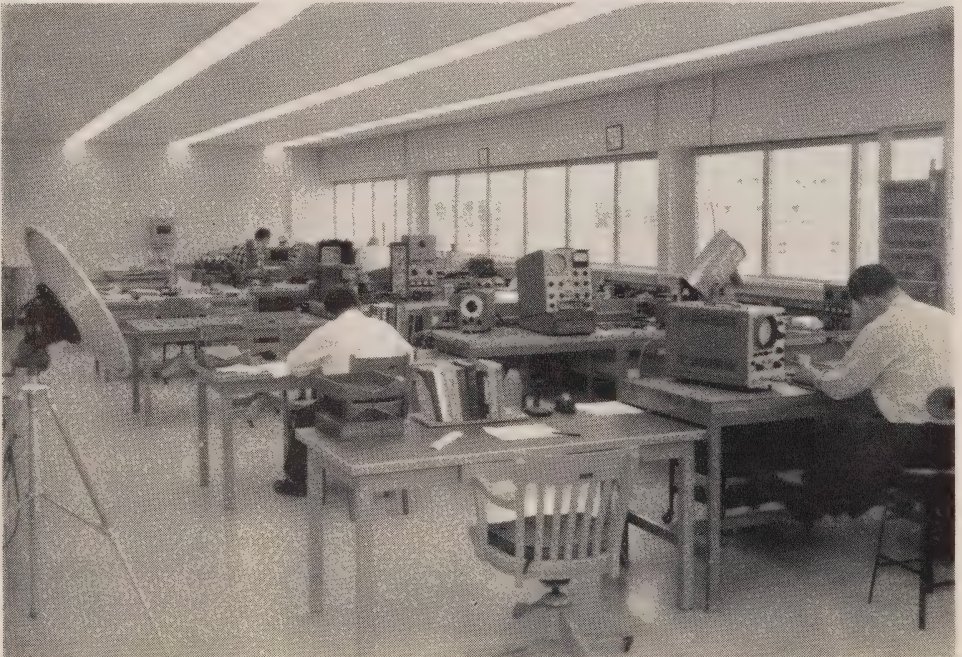
Each phase of the single circuit to be carried on the line will consist of a bundle of four 0.9-inch-diameter conductors spaced 18 inches apart in a square pattern.

Clearing of the 23-mile right of way for the Otter Rapids Generating Station to Pinard Transformer Station, 230-kv, single-circuit transmission line was completed and the erection of towers was begun. Surveying was completed for a 28-mile, 230-kv, double-circuit transmission line to be constructed between Little Long Generating Station and Pinard Transformer Station.

## SECTION V

### RESEARCH AND TESTING ACTIVITIES

**I**N September, the research and testing laboratory was transferred to its new modern quarters, the Ontario Hydro W. P. Dobson Research Laboratory, located on Kipling Avenue in western Metropolitan Toronto, at the Commission's A. W. Manby Service Centre. In November, construction was started for an adjacent separate high-voltage test building scheduled for completion early in 1962.



**ELECTRONICS AND COMMUNICATIONS** — In this area of the research laboratory, electronic devices for power-system operation are developed, and studies are undertaken for special problems in communications, telemetering, and in high-voltage and extra-high-voltage transmission.



The new laboratory provides much better and more spacious accommodation than was formerly available for research and testing. The building is air-conditioned, and electrically heated. For environmental test purposes, eighteen special rooms are equipped to provide required conditions of temperature and relative humidity controlled within narrow specified limits. Other modern features include fluorescent lighting of appropriate level, supplied at 600 volts; suitable electric-power supplies for the various laboratory areas, provided from special motor-generator sets through a main control panel with readily changed connections; convenient vertical shafts for electric, telephone, and intercommunication circuits, and for other building services; such facilities as a specially reinforced structural test floor of high-load capacity, and three experimental vibration-test spans of lengths adjustable up to 120 feet; and provision for an anechoic test room. Some typical laboratory areas are shown in accompanying photographs.

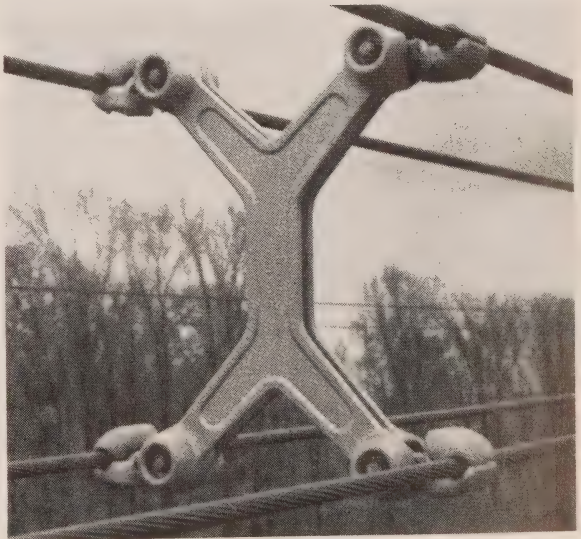
During the year, the usual research and testing services were provided as required in support of the Commission's technical needs. Co-operative work was continued with other research bodies, and contact with those having like interests was maintained as in past years. The improved facilities and accommodation will result in a considerable extension of services and activities. The scope of a few of these is indicated in the following paragraphs.

#### EXTRA-HIGH-VOLTAGE STUDIES

Studies were continued relative to the design and construction of Ontario Hydro's first ehv transmission line, extending north from Sudbury to a point near Abitibi Canyon Generating Station.

##### **Combination Spacer and Damper**

A combination "spacer-damper" was developed for use with 4-conductor-bundle lines. The requirements are that the sub-conductors of the bundle be held at the proper spacing, and be protected against the damaging effects of "aeolian" vibration. The vibration-damping elements are of conducting silicone rubber similar to that in the dumb-bell-type torsional damper. Besides the main service requirements, the spacer-damper must accommodate the relative longitudinal move-

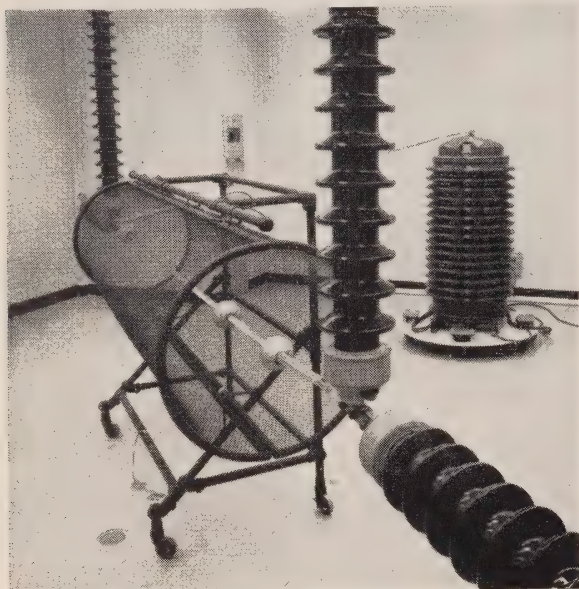


HARDWARE FOR EXTRA-HIGH-VOLTAGE TRANSMISSION LINE  
— This combination spacer and damper was developed for use with four-conductor bundle lines.

ments of the sub-conductors and be free from corona at operating voltages. In extensive field and laboratory tests the spacer-damper gave promise of meeting these requirements adequately for the service life of the line.

### Conductor-suspension Assembly

New principles of corona shielding were incorporated in the design of an ehv suspension assembly developed in co-operation with manufacturers. With this assembly, itself specially designed to prevent the introduction of corona, the sub-conductors of bundles are placed at the same level as the bottom insulator unit of the suspension string, rather than below it. This arrangement reduces insulator corona sufficiently to make corona shields unnecessary.



**VOLTAGE-GRADIENT INDICATOR** — In this simple device for basic corona studies the wire-mesh cylindrical cage enables critical surface voltage gradients to be obtained on conductors at relatively low test voltages. The transformer in the porcelain bushing in the centre background has a capacity of 10 kva at 150 kv.

### Hardware Corona

New methods were established and equipment was designed and built for tests of items of line hardware to ensure freedom from corona under even the most adverse conditions. A new conductor voltage gradient calibration device was developed to permit comparison of hardware-corona test results obtained in different laboratories, regardless of the respective test arrangements.

### Insulators

The necessity for making a selection from among insulators of various types avail-

able for ehv transmission lines, and the design changes introduced in standard insulators by new suppliers prompted certain unusual mechanical studies. In one, appraisal was made of the relative damage that could be caused by gunfire of hunters to rod-type and to the familiar cap- and pin-type insulators. Controlled hits by heavy-calibre hunting ammunition broke the rod-type units so completely that if they had been in service, line outages would have resulted. On the other hand cap- and pin-type units remained mechanically intact even though most of the exposed porcelain was shattered. In another study insulators of various designs were compared with respect to their ability to withstand the repeated load and temperature cycling to which line insulators are exposed in service. The insulators were subjected to ten million load cycles and numerous thermal cycles from  $-70^{\circ}\text{F.}$  to  $+70^{\circ}\text{F.}$

### Conductor Stringing

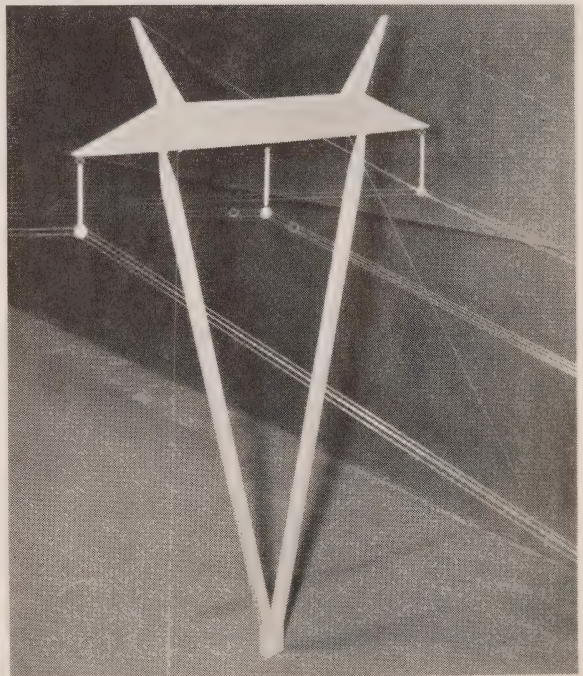
In the testing and development of equipment used in tension-stringing of ehv bundle-conductor lines, multi-sheave travellers, running-boards, and swivels



and fittings to connect the four sub-conductors and the pulling line to the running-board, were tested for strength and performance at temperatures down to sub-zero levels. The rotational tendency and stability of non-rotating wire ropes of several types were investigated. Tests were undertaken to determine the strength of other equipment such as cable grips, insulator lifting yokes, and a cable-car transfer bracket. In addition, investigation was made of the possible damaging effect which such equipment might have on conductors and insulators, with possible adverse effect ultimately on line operations.

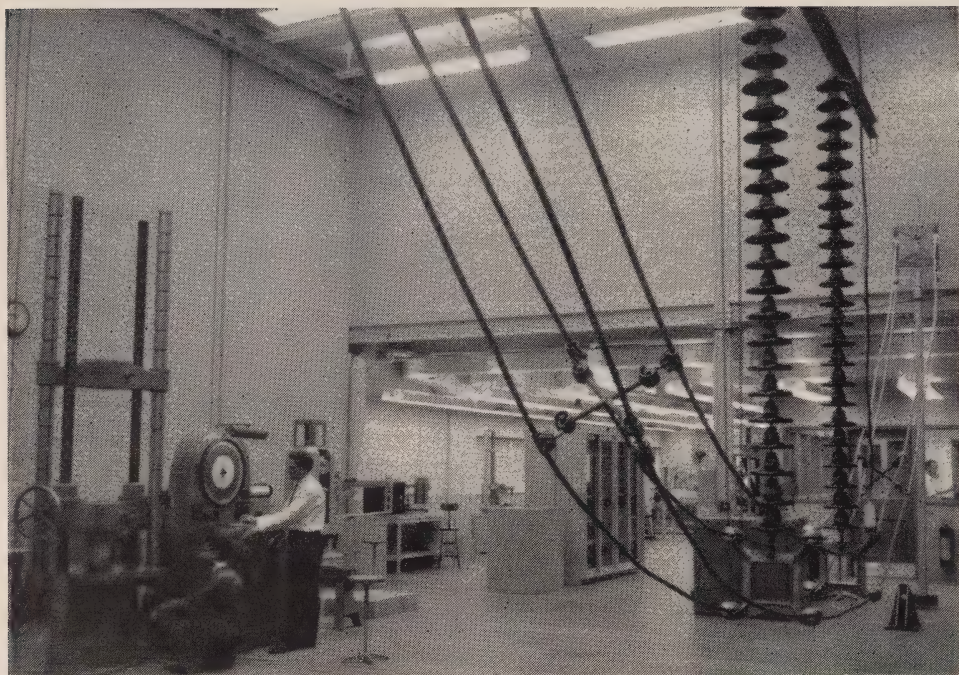
### **Tower-proximity Effect on Voltage Gradients**

In the design of an ehv transmission line, a maximum limit on conductor surface voltage gradient is specified in order to obtain acceptable levels both of radio interference and of corona loss. For Ontario Hydro's ehv line, the limiting values of voltage gradient were determined from tests at the Coldwater Project. The tower-proximity effect could not be accurately gauged, however, since economical considerations had dictated that wooden structures be used instead of metal on the test line. Although the design gradient values were believed to be sufficient to provide for proximity effect, an accurate estimate of the effect was considered necessary to verify whether simple and economical corrective measures could be applied if needed. For this purpose a 1:40 scale model of about 700 feet of the ehv line was set up in a room darkened to permit visual corona observations. In tests, the corona inception voltages at mid-span were found to be only from 3 to 4 per cent less than those near the tower. Although the results indicated that gradient control near towers would in general not be required, various simple control measures were found for application in possible critical areas.



**EHV TRANSMISSION-LINE MODEL** — In order to obtain an accurate estimate of the effect of tower proximity on conductor surface voltage gradient, a model of 700 feet of line was constructed on a scale of 1:40. An area darkened to permit visible corona observations was used for tests with the model.

With the model the corona inception voltages of the tower guy cables and of the overhead ground cables of the line also were checked. The data showed that no corona problem for these components need be expected.



**STRUCTURAL TESTING** — This view of the structural testing laboratory includes one corner of the two-storey section. The floor in the foreground is specially reinforced to permit high-load capacity tests.

## DESIGN AND CONSTRUCTION

### **Concrete for Reactor Building**

#### **Douglas Point Nuclear Power Station**

To ensure that the concrete for the Douglas Point Nuclear Power Station reactor building would be both crack-free and durable, various special measures were developed and applied. By the use of fly ash from Richard L. Hearn Generating Station to replace part of the cement in the mix, the temperature rise after placing was kept low, so that subsequent cooling stresses were avoided. By the use of admixtures that maintain workability of the mix with a low water to cement ratio, the required strength in the concrete was obtained with a lower cement content than usual. As a further measure the building, which is circular, was built in alternate large and small segments, the large segments being placed first and allowed to cool before the filler segments were placed. Significant temperature rise of the filler segments was avoided by the use of ice in the mix. The crack-free condition of the completed structure displays the effectiveness of the precautions adopted and the thoroughness of control of the placing operations.

#### **New Concreting Practices — Otter Rapids Generating Station**

The greater degree of watertightness of Otter Rapids Generating Station dam as compared with earlier structures confirmed the effectiveness of several changes in concreting practices adopted at the project, which was built by the low-lift



method of concrete placement. Horizontal cracks, which occur at random levels in older structures built by the high-lift method and are therefore a principal source of water leakage, occur only at horizontal joints in low-lift structures. Since the improved method of placing concrete by successive lifts in rapid sequence does increase the number of horizontal joints, special precautions were taken to achieve watertightness. Between lifts all horizontal joints were sand-blasted, the bond between subsequent lifts being thus improved. Significant water leakage at horizontal joints is prevented by the use of short lengths of plastic waterstop extending horizontally from the vertical waterstop for short distances along the horizontal joints. The required length of such stub waterstops was established by coring during early stages of construction.

### **False Set in Cement**

In recent years, some field problems with concrete during placing were traced to what is known as a false-set tendency of the cement being used. Such a false-set tendency can induce early stiffening in concrete for which the mixing period has been relatively short. A short mixing period is characteristic of the large central mixing plants that supply concrete for major hydraulic projects. With cement that has false-set tendencies, the use of water-reducing admixtures, now a standard Ontario Hydro practice, tends to aggravate the abnormal setting characteristics. Since existing standard tests have proved inadequate for predicting premature stiffening of concrete, the performance of cement must be checked not only at the standard test temperature of 70°F. but also at 50°F., which frequently is the temperature of the mix for mass concrete. With the co-operation of the companies supplying cement to Ontario Hydro, the problem of the production of cement having false-set tendencies is now being brought under control. The development of suitable test procedures for early detection of false set in cement is being fostered through participation in co-operative studies under the auspices of national standardizing bodies.

### **Blasting Control**

In order to avoid damage to existing structures from blasting operations nearby, data to help establish the physical laws involved have been collected as opportunities became available. Some years ago, in co-operation with the National Research Council, experimental blasts were set off adjacent to buildings scheduled for demolition in the headpond area of the Robert H. Saunders-St. Lawrence Generating Station. In a similar situation more recently at the current Carillon development of Quebec Hydro on the Ottawa River, test blasting was again conducted in co-operation with the National Research Council, with the Commission primarily providing technical advice. Further data were obtained from a study of blasting in close proximity to the Douglas Point Nuclear Power Station reactor building, with blasting procedures based on Ontario Hydro recommendations.

Experience derived from these methodical studies of blasting will enable future blasting operations near buildings to be planned for maximum efficiency, but with a greater margin of safety than in the past.



### **Varved Clay**

There are numerous varved-clay deposits in Ontario. They occur chiefly in the areas adjacent to the Great Lakes, in the Northern Clay Belt around Timmins and Cochrane, and in an area extending westward from Rainy Lake into Manitoba. The notable engineering feature of this clay is its stratification, usually of coarse and fine material in alternate layers, two contiguous layers being known as a couplet.

In a recent foundation study for a proposed dam site where there are varved-clay deposits of considerable depth, a detailed study was undertaken of similar clays exposed at an adjacent landslip. New classification and testing techniques were developed for this non-uniform clay since standard procedures are normally based on assumptions of homogeneity.

The properties of the several layers were determined in detail, and compared. Although the properties of the relatively silty and the relatively clayey materials differ markedly, the particular site studied showed no significant difference from couplet to couplet with increasing depth. Consequently the results of a study of any particular couplet could be considered representative of the deposit. From the testing, reasonable appraisals were possible of such engineering properties of the deposit as strength and compressibility.

### **Muskeg**

In the current development of hydraulic-power sites in northern Ontario, the presence of muskeg creates problems, particularly for the construction of



**APPLIED MECHANICS** — The photograph shows part of the laboratory for the study of problems involving stress and strain, force, pressure, noise, and vibration.

access roads and transmission lines. For the better understanding of the problems involved, suitable testing techniques were developed. The behaviour in compression and in shear of samples of peat from the area around Abitibi Canyon and Little Long Generating Stations was studied in the laboratory. Of particular interest was the great strength developed by the muskeg after consolidation.

In a study of the classification of muskeg from aerial photographs, for a length of transmission-line right of way south of Otter Rapids good correlation was established between the classification based on the photographs and that from actual ground observations. The information is intended as a guide in aerial muskeg classification surveys.

### **Ehv Transmission Tower Anchors**

Based mainly on field test results, a high-capacity anchor was developed for the guyed-tower structure being used for the ehv transmission line now under construction. The anchor was designed for use in the soft soils in the Timmins area and in the soils underlying muskeg farther north. The anchor consists of a buried horizontal log held down by two or three more deeply embedded commercial anchors installed vertically. The total guy capacity is largely determined by the vertical anchors; special backfilling and pre-tensioning of the vertical anchors are necessary in order to obtain the high-capacity anchorage required.

### **Blading Strain—Steam Turbines**

Because of service fatigue failures of blading in a steam turbine at the Richard L. Hearn Generating Station, the service strains were measured in some of the blading for the full range of normal turbine operating conditions. On the basis of the measured data and of related vibration studies in the laboratory, suitable measures for preventing the damaging blade vibrations were recommended. It is significant that only a few years ago such studies would not have been possible. Now, with the rapid advances in strain and allied measurement work the working strains in machine members operating in relatively inaccessible locations under demanding conditions can be successfully investigated.

## **EVALUATION AND APPLICATION STUDIES**

### **Use of Spray-applied Urethane Foam for Thermal Insulation**

For the Douglas Point Nuclear Power Station reactor building steel dome, exterior thermal insulation is required to prevent condensation on the interior surface and, by equalization of thermal stresses, to ensure dimension stability of the structure. For a number of reasons conventional materials were deemed unsuitable. Consequently recently developed spray-applied urethane foams were investigated for the purpose. Commercial foams were improved and developed to provide the necessary strength and other requirements. The addition of fluorochlorohydrocarbon increased the thermal efficiency of the foam by fifty per cent.





**FACILITIES FOR CHEMICALS TESTING** — Studies are made of lubricants, insulating liquids, and petroleum products of all types used by the Commission, as well as analyses and evaluation of paints and emulsions of various kinds for control of plant growth and insects.

### **Automotive Undercoatings**

Underbody metal corrosion caused by water, principally in conjunction with de-icing salts sprinkled on roads each winter, has been a major factor in the cost of repairs to trucks and automobiles in the Ontario Hydro fleet. Conventional asphalt-asbestos-clay undercoatings previously used, although inexpensive, proved unsatisfactory. Laboratory evaluation of grease and graphite-loaded grease coatings, rubberized asphalt, pigmented rubber paints and high-solids rubber mastic coatings, indicated that only the 100 per cent rubber coating was completely satisfactory and suitable for protecting underbody metals for the 8-year period required for some vehicles.

### **Live-line Tools**

The safe-working-load ratings for wood-type live-line tools currently used by Ontario Hydro were determined. Items tested were those that are normally subjected to relatively high service loads. The study prompted further tests on live-line tools of the foam-filled, glass-reinforced epoxy resin type. The tests provided a comparison between tools of wood and of plastic, and between plastic tools from various suppliers, to ensure for Ontario Hydro the selection of tools that offer maximum economy together with adequate safety.

### **Underwater Metal Coatings**

In long-term laboratory and field immersion tests of underwater paint materials, several coatings of the newer types have performed satisfactorily. For



underwater gate coatings where high resistance to ice abrasion is a major requirement, vinyl and coal-tar epoxy systems applied on the basis of laboratory recommendations have proved successful.

### **Motor-vehicle Seat Belts**

Following the decision to equip certain Ontario Hydro passenger vehicles with safety seat belts, an evaluation was made of several types available and a satisfactory method of anchoring the belts was developed based on internationally accepted requirements. The method is adaptable with only slight modification to vehicles of a range of sizes and types.

## **SYSTEM OPERATION**

### **Economic Power Despatch**

An operations research team is continuing its investigations with a view to developing an automatic scheduling procedure for determining the optimum daily operation on an hour-to-hour basis of major thermal and hydraulic power stations and of tie-lines with other power utilities. By the use of new mathematical techniques and the operation of the Commission's Univac II computer experimental schedules are now being produced for the Southern Ontario System. These indicate possible daily savings in excess of one thousand dollars whenever system demand substantially exceeds the capacity of hydraulic resources.

### **Power-line Carrier Amplifiers—St. Lawrence Circuits**

Signal levels in the power-line carrier channels from St. Lawrence Transformer Station to Hinchinbrooke Switching Station, and to Richview Transformer Station were insufficiently high for reliable telemetering under adverse weather conditions. A continuation of studies mentioned briefly in last year's Report, established the feasibility of direct insertion of a signal amplifier in the carrier bypass at an intermediate station; tests indicated that the resulting signals are at a satisfactory level. The advantage of this technique of signal amplification is avoidance of the complications and expense necessitated by the usual procedure involving changes of signal frequency. A direct-insertion amplifier was built and installed in the carrier bypass circuit at Hinchinbrooke Switching Station. The signal levels to date have been ample for reliable carrier operation.

## **MISCELLANEOUS STUDIES**

### **Inventory Management**

In the now completed second stage of a planned sequence of operations research studies with respect to Commission stores, new operational concepts were applied to the whole range of materials management. Advanced methods of stock control were introduced, and an integrated information system was developed for use by all concerned. Inventories were substantially reduced. In addition, significant improvements were achieved in reducing not only the frequency of material shortages, but also the time required to supply material from central warehouses to regional stores.

**Air Pollution**

For a three-year period, a study was made of air pollution in the vicinity of the Richard L. Hearn Generating Station in the east end of Toronto. The purpose was to determine, by measurements of sulphur dioxide and dust, whether pollution is caused at ground level by the station stack gases.

The measured values, correlated with relevant meteorological and operating data, show that under average conditions the generating station has a negligible effect on prevailing sulphur dioxide levels in the atmosphere. Dustfall sufficient to be measurable occurs only very close to the station and mainly on Ontario Hydro property. The quantities of fine particles in the atmosphere could not be attributed in any way to the operation of the station.

**Coronaphone**

The task of accurately locating radio-interference sources on a power line has long been difficult. Recently, a new method was developed for locating the sources precisely, based on the fact that corona produces audible noise along with radio-frequency noise. The method involves the use of a device called a coronaphone, which combines a highly sensitive microphone and a directional reflector. With the coronaphone the origin of audible noise 100 feet away on a transmission line can be determined to within one foot. The unit is self-contained and portable, and can be operated in the field by one man.

## SECTION VI

### STAFF RELATIONS

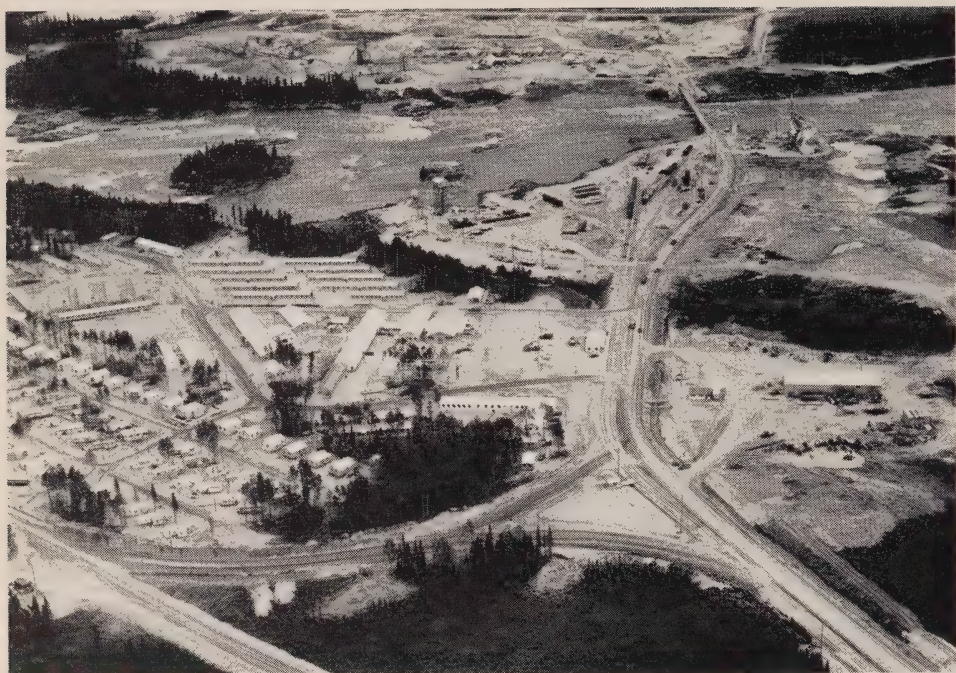
**W**ITH the increasing use of automatic equipment, and the changes in organization that have their origin in this and other administrative developments, there is evidence of a gradual shift in the composition of the Commission's staff. While the total number employed on regular staff remained relatively stable over the past year, there was a notable increase in the number engaged in marketing, both at Head Office and in the Regions. On the other hand, there has been in recent years a fairly continuous decline in technical and trades staff and in some groups of clerical staff. In view of these shifts, the number of management and professional employees, though not significantly changed in total during 1961, has become a continuously increasing proportion of the regular staff over the years, rising from under 10 per cent in 1958 to approximately 12 per cent in 1961.

#### **Personnel Planning and Development**

In conformity with this trend the Commission attaches great importance to recruiting the most promising candidates for this category of employment, and subsequently seeks to provide them with adequate opportunity to develop their qualifications. Canadian universities continue to be the prime source of recruits. During 1961, twenty engineering graduates were engaged for training by the Commission for positions of responsibility.

Training has been generally expanded over the past 5 years to enable management and professional staff to deal more effectively with increasingly complex management problems. An interesting development during 1961 was the introduction, within the organization, of advanced training for senior management personnel. The program will involve a total of about 200 persons for short periods of concentrated study over a two-year period. In addition to these courses, voluntary seminars held outside normal working hours continue to interest approximately 250 specially selected members of the staff.





CONSTRUCTION COLONY AT LITTLE LONG GENERATING STATION — In 1961 between 800 and 900 members of the Commission's construction staff were living in this community, not as it might appear at a junction point on a modern expressway, but 250 miles north of Sudbury and with access to the outside world for the most part only by rail. The colony will also serve for construction at Harmon and Kipling Generating Stations.

Particular effort is being directed to the retraining of experienced staff whose jobs have been affected or eliminated by reorganization, technological change, or the introduction of automatic equipment. Of some 150 employees thus affected in 1961, approximately 84 per cent have been given on the job training and either have been, or are on the point of being, relocated where their skill and experience can effectively serve the Commission.

### Employment Statistics

During 1961 the monthly average number of employees on the staff included 12,515 regular and 2,582 temporary employees for a total of 15,097. While there was little variation from month to month in the number of regular employees, temporary staff ranged from a high of 3,319 to a low of 1,917. These employees are engaged for the most part in seasonal work in construction and maintenance.

### Labour Relations

Agreements were negotiated with the Allied Construction Council, an association of a number of craft unions engaged in construction activity throughout the province, and with two units of the Canadian Union of Operating Engineers acting for employees at Richard L. Hearn and J. Clark Keith Generating Stations. These agreements were to be in effect until January 31, 1962, and June 27, 1962, respectively. Bargaining began early in January 1961 for the renewal of the agreement

with the Ontario Hydro Employees Union representing about 9,000 operating, maintenance, and clerical employees. The agreement terminated on March 31, 1961. When after lengthy discussion it became apparent that there was little likelihood of reconciling outstanding differences, application was made for conciliation services under the Labour Relations Act. Subsequently a Conciliation Board was established, and when a report was submitted in early February 1962, the Commission accepted the recommendations of the Board, but the Union declined to do so.

## **Accident Prevention**

With the advances recorded over recent years, it becomes increasingly difficult to achieve over-all statistical improvement in the frequency or rated severity of accidents per million hours worked. The maintenance of an excellent standard may itself be regarded as no mean achievement. As measured by the American Standards Association method, the accident frequency rate remained unchanged in 1961, and while the severity rate increased somewhat, it was still only 66 per cent of the average for the preceding five years.

Special recognition should be given the Eastern and Niagara (as constituted prior to January 1, 1962) Regions for extending their accident-free records beyond



**THE LITTLE LONG EXPRESS** — Though freight cars greatly outnumber the passenger coaches, and the latter are somewhat antiquated, this daily train between Kapuskasing and the Little Long Generating Station site via the Spruce Falls Power and Paper Company Railway is for most of the staff at the site their one link with the outside world. For Little Long Generating Station alone, the train will transport an estimated 130,000 tons of material. It will also carry material for the two other new stations on the Mattagami River for trans-shipment by road from Little Long Generating Station.





**COFFERDAM CONSTRUCTION AT LITTLE LONG RAPIDS** — In April 1961, timber work for the first-stage cofferdam was extended from the west bank into the Mattagami River. The workmen took the precaution of working with the protection of life-lines. When the U-shaped rock-filled timber crib was complete, the area within was pumped dry to permit construction of the diversion section.

another million-hour level to bring their respective accident-free totals to 3,168,492 and 2,052,547 man-hours. The construction forces at Thunder Bay Generating Station completed a year without a compensable accident. It is worth noting that the Commission's record in 1961 for employees engaged in the construction of major power facilities was sufficiently favourable that the cost per hundred dollars of payroll for carrying workmen's compensation protection for these forces was lower than the cost in 1960 by 35 per cent. Even the 1960 cost was little more than half that experienced in comparable construction activities outside the Commission.

For the seventh consecutive year the frequency of motor vehicle accidents in the operation of the Commission's transport equipment was reduced. On the basis of a new American Standards Association scale the frequency declined from 15 to 13 accidents per million miles driven.

Three members of the staff are to be commended for their part in saving lives by the application of artificial respiration. Mr. Benjamin Simpson of the Brampton Area resuscitated a man suffering from severe electric shock, and Messrs. R. E. Jarick and H. R. Clark of Eugenia Generating Station were able to save a three-year-old girl from drowning.



Ten employees owe their escape from serious injury and possibly from death to their observance of the rule regarding the wearing of hard hats in conformity with sound industrial safety practice.

### Medical Services

As part of the general program for the maintenance and improvement of health, greater emphasis has been placed recently on the maintenance of physical fitness and on preventive action with regard to mental health. The Commission's experience in the latter has attracted considerable attention from other industries and interested agencies.

Radiation protection training has been given to approximately 70 employees who form the operating staff at the Nuclear Power Demonstration plant. The necessary regulations have been prepared in advance of the in-service date of the station, and steps have been taken to ensure proper supervision of all radioactive sources under Commission jurisdiction. The fact that there are now between 250 and 300 applications of radioactive materials in the Commission's operations is some indication of the importance of these regulations. It is also the basis of quite widespread public interest in them.

The field hospital at Little Long Generating Station was opened on January 1, 1961, and the hospital at Otter Rapids Generating Station was closed on December



CATERIA SERVICE AT LITTLE LONG GENERATING STATION — Healthful air and vigorous work in the north country sharpen the appetite and add zest to the meal. During 1961 nearly 700,000 meals were served in the cafeteria at this new power development project, nearly 250 miles north of Sudbury.

1, 1961. The medical-aid posts established as required at several locations continued to serve the immediate needs of the staff.

Early in 1961 an outbreak of infectious hepatitis at Little Long Generating Station was a cause for some concern. The epidemic was, however, quickly brought under control by the strict enforcement of hygienic rules and the administering of gamma globulin to those exposed to the infection.

## APPENDIX I—OPERATIONS

THE tables in Appendix I are supplementary to the descriptive information on the year's operations given in Section I, and to information relating to the delivery of power and energy in wholesale quantities given in Section III.

The table of power resources and requirements gives for each system and in total the primary peak requirements for the month of December, and the dependable capacity of the Commission's resources at the time these peak requirements occurred. A separate table on pages 102 and 103 gives the December dependable capacity and maximum output of each Commission-owned station and each source of purchased power. The dependable capacity of a station is the net output which it can be expected to supply at the time of the system primary peak requirements, assuming that all units are available and that the supply of water is normal. This capacity may be recalculated from time to time in accordance with changing conditions. The capacity of a source of purchased power is based on the terms of the purchase contract.

The Analysis of Energy Sales on pages 106 and 107 shows how the kilowatt-hours generated or purchased by the Commission and the associated municipal utilities were distributed to the various classes of ultimate customers or to inter-connected systems.

Statistics of peak loads and capacities are given, as elsewhere in the Report, in kilowatts rather than in horsepower. The kilowatt figures may be converted to horsepower by assuming that one horsepower is equivalent to 0.746 kilowatts.



## THE COMMISSION'S POWER RESOURCES—1961

		Dependable capacity*	Maximum output*	Annual energy output (net)
		kw	kw	kwh
<b>Southern Ontario System</b>				
<i>River</i>	<i>Hydro-electric Generating Stations</i>			
Niagara	‡Sir Adam Beck-Niagara No. 1.....	440,000	427,500	2,595,294,400
	Sir Adam Beck-Niagara No. 2.....	1,335,000	1,278,000	8,655,046,100
	Pumping-Generating Station.....	150,000	132,000	114,572,000
	†Ontario Power.....	67,000	120,000	807,428,000
Welland Canal	†Toronto Power.....	37,000	88,000	367,779,200
	DeCew Falls No. 1.....	26,000	32,500	143,401,000
	DeCew Falls No. 2.....	130,000	140,600	919,919,100
	Adjustment to Niagara River stations to compensate for use of water by Ontario Hydro rather than by another producer.....	75,000		
Muskoka	Ragged Rapids.....	7,500	8,100	33,850,890
	Big Eddy.....	7,100	8,250	32,536,250
South Muskoka	South Falls.....	4,200	4,400	26,020,640
	Trethewey Falls.....	1,600	1,600	9,907,200
Beaver	Hanna Chute.....	1,200	1,400	8,211,700
	Eugenia.....	5,400	2,400	15,814,800
Seyvern	Big Chute.....	4,300	4,380	29,856,800
	Hanover.....	250	260	1,270,750
Trent	Heely Falls.....	11,150	12,075	62,127,740
	Ranney Falls.....	8,350	8,760	46,171,000
	Meyersburg.....	5,100	5,800	31,104,270
	Sidney.....	3,350	3,450	17,392,500
	Hagues Reach.....	3,250	3,700	20,704,130
	Seymour.....	2,950	3,200	16,691,040
	Frankford.....	2,550	2,900	14,414,400
	Sills Island.....	1,550	930	5,884,180
Otonabee	Auburn.....	1,750	1,810	9,802,800
	Lakefield.....	1,650	1,620	5,085,410
St. Lawrence	Robert H. Saunders-St. Lawrence.....	651,000	787,000	6,245,841,000
	Des Joachims.....	372,000	373,200	2,106,097,300
Ottawa	Otto Holden.....	210,000	221,000	1,060,594,900
	Chenau.....	117,000	118,400	682,022,800
Madawaska	Chats Falls (Ontario half).....	82,000	88,000	444,966,300
	Stewartville.....	63,000	66,000	177,050,400
	Barrett Chute.....	42,000	42,000	166,401,800
	Calabogie.....	4,400	4,440	24,066,270
Mississippi	High Falls.....	2,450	2,800	10,362,240
	Galetta.....	800	385	3,076,430
Rideau	Merrickville.....	900	278	2,681,420
Total hydro-electric.....		3,728,750		24,684,303,160
<i>Location</i>	<i>Thermal-electric Generating Stations</i>			
Windsor	J. Clark Keith.....	244,000	127,000	99,608,100
Toronto	Richard L. Hearn.....	1,128,000	667,500	406,064,900
	Lakeview.....		150,000	7,862,800
Total thermal-electric.....		1,372,000		513,535,800
Total generated—Southern Ontario System.....		5,100,750		25,197,838,960
<i>Sources of Purchased Power</i>				
Detroit Edison Company.....			82,000	201,002,200
†Niagara Mohawk Power Corporation.....			415,000	1,117,016,000
†Canadian Niagara Power Company, Limited.....		15,000	23,000	15,622,000
Power Authority of the State of New York.....				39,472,000**
Quebec Hydro-Electric Commission.....		187,000	421,000	2,817,477,000
Gatineau Power Company.....		239,000	248,800	1,462,074,500
MacLaren-Quebec Power Company.....		93,000	107,000	597,072,000
Ottawa Valley Power Company.....		82,000	88,000	446,522,700
Miscellaneous (relatively small suppliers).....				4,278,971
Total purchased—Southern Ontario System.....		616,000		6,700,537,371

† 25 cycle.

‡ 25 and 60 cycle.

\* The power capacity and output referred to in this table are 20-minute peaks for the month of December. Since the various maximum outputs do not coincide, their sum is not the peak load of the system.

\*\* Includes 538,000 kwh wheeled to Niagara Mohawk Power Corporation for Power Authority of the State of New York.

## THE COMMISSION'S POWER RESOURCES—1961

		Dependable capacity*	Maximum output*	Annual energy output (net)
<b>Northern Ontario Properties</b>				
<b>NORTHEASTERN DIVISION</b>		kw	kw	kwh
<i>River</i>	<i>Hydro-electric Generating Stations</i>			
Abitibi	†Abitibi Canyon . . . . .	232,000	228,500	1,441,104,600
	Otter Rapids . . . . .	88,000	88,000	126,298,000
	Adjustment for temporary limitation in 60-cycle transmission capacity from Abitibi River stations . . . . .	59,000		
Mississagi	George W. Rayner . . . . .	47,000	46,470	345,207,960
	Red Rock Falls . . . . .	40,000	40,000	205,634,800
Mattagami	†Wawaitin . . . . .	10,800	10,800	57,887,908
	†Lower Sturgeon . . . . .	6,000	6,000	44,907,168
	†Sandy Falls . . . . .	2,700	2,710	21,696,504
Montreal	Upper Notch . . . . .	8,400	8,180	55,194,000
	Hound Chute . . . . .	3,600	3,810	30,529,600
	Indian Chute . . . . .	3,000	3,000	18,611,720
	Fountain Falls . . . . .	2,000	2,140	15,706,032
Wanapitei	Stinson . . . . .	5,700	4,260	26,410,000
	Coniston . . . . .	4,100	4,130	26,676,180
	McVittie . . . . .	2,200	2,160	16,048,120
Matabitchuan	Matabitchuan . . . . .	8,800	10,000	66,870,400
Sturgeon	Crystal Falls . . . . .	8,200	8,100	50,112,000
South	Nipissing . . . . .	1,600	1,610	10,530,600
	Elliott Chute . . . . .	1,400	1,480	5,137,060
	Bingham Chute . . . . .	900	930	4,662,820
Kagawong	Kagawong . . . . .			2,136,520
Total hydro-electric . . . . .		417,400		2,571,361,992
<i>Location</i>	<i>Diesel-electric Generating Stations</i>			
Kagawong	Kagawong (diesel portion) . . . . .			2,600
Chapleau	Chapleau . . . . .	600	408	1,015,680
Hornepayne	Hornepayne . . . . .	1,000	761	3,498,200
Total diesel-electric . . . . .		1,600		4,516,480
Total generated—Northeastern Division . . . . .		419,000		2,575,878,472
<b>NORTHWESTERN DIVISION</b>				
<i>River</i>	<i>Hydro-electric Generating Stations</i>			
Nipigon	Pine Portage . . . . .	119,200	130,000	724,799,570
	Cameron Falls . . . . .	76,700	78,000	492,744,700
	Alexander . . . . .	60,900	63,000	389,087,760
English	Caribou Falls . . . . .	79,300	77,000	399,707,000
	Manitou Falls . . . . .	65,700	64,500	282,141,400
	Ear Falls . . . . .	15,900	15,200	93,154,600
Kaministiquia	Silver Falls . . . . .	45,100	45,000	200,845,400
	Kakabeka Falls . . . . .	25,000	21,750	153,307,100
Winnipeg	Whitedog Falls . . . . .	61,700	62,000	295,393,000
Aguasabon	Aguasabon . . . . .	44,000	46,300	295,748,170
Albany	Rat Rapids . . . . .			13,000
Total generated—Northwestern Division . . . . .		593,500		3,326,941,700
<i>Sources of Purchased Power</i>				
<b>NORTHEASTERN DIVISION</b>				
†Abitibi Power & Paper Company, Limited . . . . .			6,300	5,874,480
†Quebec Hydro-Electric Commission . . . . .			37,600	133,337,602
Great Lakes Power Corporation, Limited . . . . .			45,500	80,762,000
Miscellaneous (relatively small suppliers) . . . . .		1,500	6,965	24,802,522
Total purchased—Northeastern Division . . . . .		1,500		244,776,604
<b>NORTHWESTERN DIVISION</b>				
Ontario Minnesota Pulp & Paper Company . . . . .		3,000	2,148	11,324,000
Manitoba Hydro-Electric Board . . . . .			17,500	154,956,100
Total purchased—Northwestern Division . . . . .		3,000		166,280,100
<b>Total generated—All systems . . . . .</b>		<b>6,113,250</b>		<b>31,100,659,132</b>
<b>Total purchased—All systems . . . . .</b>		<b>620,500</b>		<b>7,111,594,075</b>
<b>Total generated and purchased—All systems . . . . .</b>		<b>6,733,750</b>		<b>38,212,253,207</b>

## POWER RESOURCES

		December dependable		
		Commission stations		
		Hydro-electric	Thermal-electric†	Total
		kw	kw	kw
Southern Ontario System	1961	3,728,750	1,372,000	5,100,750
	1960	3,948,750	994,000	4,942,750
Northern Ontario Properties				
Northeastern Division	1961	417,400	1,600	419,000
	1960	368,400	1,900	370,300
Total	1961	4,146,150	1,373,600	5,519,750
	1960	4,317,150	995,900	5,313,050
Net increase or decrease				
Southern Ontario System		220,000	378,000	158,000
Northeastern Division		49,000	300	48,700
Total		171,000	377,700	206,700
Northern Ontario Properties				
Northwestern Division	1961	593,500	0	593,500
	1960	593,900	0	593,900
Net increase or decrease				
Northwestern Division		400	0	400
<b>Total—All systems</b>	<b>1961</b>	<b>4,739,650</b>	<b>1,373,600</b>	<b>6,113,250</b>
	<b>1960</b>	<b>4,911,050</b>	<b>995,900</b>	<b>5,906,950</b>

\* The capacities shown are those available for a 20-minute period at the times of system primary peak demand in each of the three operating systems in December, the capacity of sources of purchased power being based on the terms of the purchase contract. Requirements shown are the December coincident peaks for each system and their arithmetic sum.

## ANNUAL ENERGY

## Energy Made Available by the Commission

	1960		1961		Increase or decrease
	kwh		kwh		per cent
SOUTHERN ONTARIO SYSTEM					
Generated (net)					
hydro-electric	26,063,437,785		24,684,303,160		5.3
thermal-electric	165,068,900		513,535,800		211.1
Total generated	26,228,506,685		25,197,838,960		3.9
Purchased	5,676,309,904		6,700,537,371		18.0
Transferred* in or out (net)	1,357,163,000		877,316,000		35.4
Primary		26,321,728,089		27,610,376,454	4.9
Secondary		4,225,925,500		3,410,683,877	19.3
Total	30,547,653,589	30,547,653,589	31,021,060,331	31,021,060,331	1.5
NORTHERN ONTARIO PROPERTIES					
NORTHEASTERN DIVISION					
Generated (net)					
hydro-electric	2,191,755,625		2,571,361,992		17.3
diesel-electric	4,417,860		4,516,480		2.2
Total generated	2,196,173,485		2,575,878,472		17.3
Purchased	215,038,946		244,776,604		13.8
Transferred* in or out (net)	1,357,163,000		877,316,000		35.4
Primary		3,636,699,913		3,561,305,871	2.1
Secondary		131,675,518		136,665,205	3.8
Total	3,768,375,431	3,768,375,431	3,697,971,076	3,697,971,076	1.9
NORTHWESTERN DIVISION					
Generated (net)					
hydro-electric	3,288,639,700		3,326,941,700		1.2
Purchased	104,214,208		166,280,100		59.6
Primary		2,759,000,194		2,689,678,320	2.5
Secondary		633,853,714		803,543,480	26.8
Total	3,392,853,908	3,392,853,908	3,493,221,800	3,493,221,800	3.0
ALL SYSTEMS					
Generated (net)					
hydro-electric	31,543,833,110		30,582,606,852		3.0
thermal- and diesel-electric	169,486,760		518,052,280		205.6
Total generated	31,713,319,870		31,100,659,132		1.9
Purchased	5,995,563,058		7,111,594,075		18.6
Primary		32,717,428,196		33,861,360,645	3.5
Secondary		4,991,454,732		4,350,892,562	12.8
Total	37,708,882,928	37,708,882,928	38,212,253,207	38,212,253,207	1.3

\*Net interchange between Southern Ontario System and Northeastern Division of the Northern Ontario Properties.



## AND REQUIREMENTS

capacity*		Primary power requirements*	Reserve	Ratio of reserve to requirements
Sources of purchased power	Total dependable capacity*			
kw	kw	kw	kw	per cent
616,000	5,716,750	4,982,455	.....	.....
616,000	5,558,750	4,772,583	.....	.....
1,500	420,500	543,944	.....	.....
1,200	371,500	551,661	.....	.....
617,500	6,137,250	5,526,399	610,851	11.1
617,200	5,930,250	5,324,244	606,006	11.4
0	158,000	209,872	.....	.....
300	49,000	7,717	.....	.....
300	207,000	202,155	.....	.....
3,000	596,500	422,418	174,082	41.2
2 000	595,900	421,438	174,462	41.4
1,000	600	980	.....	.....
<b>620,500</b>	<b>6,733,750</b>	<b>5,948,817</b>	<b>**</b>	<b>**</b>
<b>619,200</b>	<b>6,526,150</b>	<b>5,745,682</b>	<b>**</b>	<b>**</b>

\*\* There is no interconnection between the Northwestern Division and the other operating systems of the Commission

† Includes diesel-electric.

## ACCOUNT

## Energy Disposed of by the Commission in Wholesale Quantities

	1960	1961	Increase or decrease
	kwh	kwh	per cent
<b>SOUTHERN ONTARIO SYSTEM</b>			
Primary—Municipal electrical utilities.....	16,828,812,615	18,291,018,225	8.7
—Local systems.....	4,972,000	5,287,048	6.3
—Interconnected systems, for resale.....	421,380,355	332,557,374	21.1
—Rural operating areas.....	2,508,393,230	2,567,931,903	2.4
—Direct industrial customers.....	4,218,341,434	4,057,515,694	3.8
Total primary.....	23,981,899,634	25,254,310,244	5.3
Secondary—Interconnected systems, for resale.....	4,005,775,000	3,177,492,280	20.7
—Direct industrial customers.....	.....	.....	.....
Total secondary.....	4,005,775,000	3,177,492,280	20.7
Total primary and secondary.....	27,987,674,634	28,431,802,524	1.6
Losses and unaccounted for.....	2,559,978,955	2,589,257,807	1.1
Total.....	30,547,653,589	31,021,060,331	1.5
<b>NORTHERN ONTARIO PROPERTIES</b>			
<b>NORTHEASTERN DIVISION</b>			
Primary—Municipal electrical utilities.....	377,674,126	409,730,825	8.5
—Local systems.....	182,088,374	189,833,915	4.3
—Interconnected systems, for resale.....	17,706,000	19,438,000	9.8
—Rural operating areas.....	261,457,029	284,686,601	8.9
—Direct industrial customers.....	2,424,728,620	2,266,859,025	6.5
Total primary.....	3,263,654,149	3,170,548,366	2.9
Secondary—Interconnected systems, for resale.....	.....	861,228	.....
—Direct industrial customers.....	129,101,838	133,920,000	3.7
Total secondary.....	129,101,838	134,781,228	4.4
Total primary and secondary.....	3,392,755,987	3,305,329,594	2.6
Losses and unaccounted for.....	375,619,444	392,641,482	4.5
Total.....	3,768,375,431	3,697,971,076	1.9
<b>NORTHWESTERN DIVISION</b>			
Primary—Municipal electrical utilities.....	495,306,036	495,933,751	0.1
—Local systems.....	18,686,852	20,926,083	12.0
—Interconnected systems, for resale.....	.....	.....	.....
—Rural operating areas.....	80,860,767	93,818,812	16.0
—Direct industrial customers.....	1,999,633,946	1,903,985,926	4.8
Total primary.....	2,594,487,601	2,514,664,572	3.1
Secondary—Interconnected systems, for resale.....	261,272,937	456,255,968	74.6
—Direct industrial customers.....	318,655,629	286,228,342	10.2
Total secondary.....	579,928,566	742,484,310	28.0
Total primary and secondary.....	3,174,416,167	3,257,148,882	2.6
Losses and unaccounted for.....	218,437,741	236,072,918	8.1
Total.....	3,392,853,908	3,493,221,800	3.0
<b>ALL SYSTEMS</b>			
Primary.....	29,840,041,384	30,939,523,182	3.7
Secondary.....	4,714,805,404	4,054,757,818	14.0
Losses and unaccounted for.....	3,154,036,140	3,217,972,207	2.0
<b>Total.....</b>	<b>37,708,882,928</b>	<b>38,212,253,207</b>	<b>1.3</b>

ANALYSIS OF  
by the Commission and Associated

	Sales by utilities listed in Statement A	Sales by The
		Through local systems
	kwh	kwh
Classes of ultimate customers served:		
Residential.....	7,276,262,491	123,765,593
Hamlet and rural residential.....	.....	.....
Summer.....	.....	.....
Total sales residential-type service.....	7,276,262,491	123,765,593
Commercial.....	3,229,924,796	59,194,738
Industrial power—primary.....	7,976,367,874	17,633,200
—secondary.....	.....	.....
Farm.....	.....	.....
Street lighting.....	272,213,528	2,864,740
Total sales to ultimate customers served.....	18,754,768,689	203,458,271
Delivered to interconnected systems for resale:		
Primary.....	.....	.....
Secondary.....	.....	.....
Total sales to ultimate customers and for resale.....	18,754,768,689	203,458,271
Adjustments:		
Losses and unaccounted for—municipal utilities.....	852,609,632	.....
Generated by utilities listed in Statement A.....	214,726,593	.....
Purchased by utilities listed in Statement A from sources other than the Commission.....	195,968,927	.....
Commission sales, wholesale and retail.....	19,196,682,801	203,458,271
Adjustment for losses and unaccounted for—Commission...	.....	12,588,775
*Disposed of by the Commission in wholesale quantities.....	19,196,682,801	216,047,046

\*This line gives the sums of the corresponding items shown on the preceding page for each of the three operating systems. The total of 34,994,281,000 kilowatt-hours plus transmission losses and unaccounted for amounting to 3,217,972,207 kilowatt-hours equals the 38,212,253,207 kilowatt-hours shown as generated and purchased.

## ENERGY SALES

## Municipal Electrical Utilities during 1961

Hydro-Electric Power Commission of Ontario			
In rural areas	To direct industrial customers	To interconnected systems for resale	Total
kwh	kwh	kwh	kwh
1,096,653,000	.....	.....	7,400,028,084
74,693,800	.....	.....	1,096,653,000
1,171,346,800	.....	.....	74,693,800
324,871,900	.....	.....	8,571,374,884
354,069,300	8,228,360,645	.....	3,613,991,434
.....	420,148,342	.....	16,576,431,019
909,189,400	.....	.....	420,148,342
11,941,200	.....	.....	909,189,400
2,771,418,600	8,648,508,987	.....	287,019,468
.....	.....	351,995,374	30,378,154,547
.....	.....	3,634,609,476	351,995,374
2,771,418,600	8,648,508,987	3,986,604,850	3,634,609,476
.....	.....	.....	34,364,759,397
.....	.....	.....	852,609,632
.....	.....	.....	214,726,593
.....	.....	.....	195,968,927
2,771,418,600	8,643,508,987	3,986,604,850	34,806,673,509
175,018,716	.....	.....	187,607,491
2,946,437,316	8,643,508,987	3,986,604,850	34,994,231,000





# APPENDIX II—FINANCIAL

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## SOUTHERN ONTARIO

## FIXED

## Statement Showing Changes during

Property	In		
	Balance January 1, 1961	Changes	
		Placed in service	Transferred to "Under construction" (Note)
	\$	\$	\$
<b>Power System</b>			
<b>HYDRO-ELECTRIC GENERATING STATIONS</b>			
Niagara River			
Sir Adam Beck-Niagara No. 1 . . . . .	87,093,757	250,717	72,942
Sir Adam Beck-Niagara No. 2 . . . . .	311,282,519	80,700	3,349
River Remedial Works and Control Structure			
Ontario Power . . . . .	21,966,517		
Toronto Power . . . . .	11,547,825		
Welland Canal			
DeCew Falls . . . . .	27,447,202	6,439	
St. Lawrence River			
Robert H. Saunders—St. Lawrence . . . . .	291,254,873	8,300,069	
Ottawa River			
Des Joachims . . . . .	73,255,397	81,180	
Otto Holden . . . . .	58,171,384	17,515	
Chenau . . . . .	29,353,440	3,677	
Chats Falls . . . . .	8,563,817	90,117	
Ogoki Diversion . . . . .	5,052,955		
Madawaska River			
Stewartville . . . . .	12,449,466		
Barrett Chute . . . . .	4,883,692	4,151	
Other properties . . . . .	20,466,951	329,205	327,308
	962,789,795	8,983,537	403,599
<b>THERMAL-ELECTRIC GENERATING STATIONS</b>			
J. Clark Keith . . . . .	46,449,744	3,995	
Richard L. Hearn . . . . .	98,850,956	46,988,642	
Lakeview . . . . .		38,750,000	
Douglas Point (Nuclear)			
—Ontario Hydro contribution			
Other properties . . . . .	625,147		
	145,925,847	85,742,637	
Total generating stations . . . . .	1,108,715,642	94,726,174	403,599
<b>TRANSFORMER STATIONS</b>			
230-kv. . . . .	90,536,699	2,033,114	49,428
Other—Niagara Division . . . . .	107,592,536	7,006,829	30,612
—Georgian Bay Division . . . . .	8,346,377	265,473	
—Eastern Ontario Division . . . . .	26,965,576	782,383	
Total transformer stations . . . . .	233,441,188	10,087,799	80,040
<b>TRANSMISSION LINES</b>			
230-kv. . . . .	103,485,915	9,474,591	393,531
Other—Niagara Division . . . . .	66,928,408	3,736,190	359,784
—Georgian Bay Division . . . . .	8,863,160	450,730	
—Eastern Ontario Division . . . . .	25,380,908	1,019,302	4,334
Total transmission lines . . . . .	204,658,391	14,680,813	757,649



## SYSTEM

## ASSETS

## Year 1961 and Balances at December 31, 1961

service		Balance December 31, 1961	Under construction December 31, 1961	Total fixed assets December 31, 1961	Expenditures during 1961
during year					
Equipment relocated and reclassified	Sales and retirements				
\$	\$	\$	\$	\$	\$
15,975	301,754	86,985,753	149,767	87,135,520	158,587
6,108,611	48,065	305,203,194	470,500	305,673,694	98,962
6,038,606	.....	6,038,606	1,406,206	7,444,812	1,406,206
.....	.....	21,966,517	9,560	21,976,077	.....
.....	.....	11,547,825	.....	11,547,825	.....
891	879	27,453,653	3,482	27,457,135	5,278
.....	.....	299,554,942	356,570	299,911,512	8,514,761
129,207	11,834	73,453,950	907	73,454,857	34,537
.....	1,086	58,187,813	708	58,188,521	2,388
.....	2,540	29,354,577	.....	29,354,577	284
99,725	145,069	8,228,906	34,807	8,263,713	88,825
.....	.....	5,052,955	.....	5,052,955	.....
.....	2,990	12,446,476	25,154	12,471,630	25,154
6,302	1,871	4,879,670	.....	4,879,670	1,814
6,297	224,862	20,250,284	1,552,355	21,802,639	1,386,176
23,662	740,950	970,605,121	4,010,016	974,615,137	11,545,322
57,458	619	46,395,662	18,638	46,414,300	19,498
.....	7,006	145,832,592	627,475	146,460,067	6,502,753
.....	.....	38,750,000	32,639,369	71,389,369	28,531,015
.....	.....	.....	1,215,755	1,215,755	578,594
.....	4,811	620,336	919,691	1,540,027	579,109
57,458	12,436	231,598,590	35,420,928	267,019,518	36,210,969
81,120	753,386	1,202,203,711	39,430,944	1,241,634,655	47,756,291
2,958,516	51,960	95,530,861	1,961,138	97,491,999	1,912,175
985,468	6,486,319	107,096,966	2,173,959	109,270,925	6,568,853
964,370	81,668	7,565,812	261,549	7,827,361	483,580
427,153	223,616	27,097,190	433,617	27,530,807	967,887
581,525	6,739,643	237,290,829	4,830,263	242,121,092	9,932,495
.....	572,034	111,994,941	1,862,474	113,857,415	4,525,344
9,131	1,751,747	68,543,936	1,802,032	70,345,968	2,384,449
53,578	184,683	9,182,785	180,921	9,363,706	484,337
134	120,009	26,276,001	637,885	26,913,886	852,141
44,581	2,628,473	215,997,663	4,483,312	220,480,975	8,246,271

SOUTHERN ONTARIO

FIXED

Statement Showing Changes during

Property	In		
	Balance January 1, 1961	Changes	
		Placed in service	Transferred to "Under construction" (Note)
	\$	\$	\$
<b>Power System—(continued)</b>			
COMMUNICATIONS . . . . .	11,152,238	341,240	.....
Total power system . . . . .	1,557,967,459	119,836,026	1,241,288
<b>Administrative and Service Land, Buildings and Equipment</b>			
LAND AND BUILDINGS . . . . .	23,525,974	3,591,177	70,528
OFFICE AND SERVICE EQUIPMENT . . . . .	7,476,008	422,881	.....
Total administrative and service land, buildings and equipment . . . . .	31,001,982	4,014,058	70,528
<b>Retail Distribution</b>			
RURAL POWER DISTRICT . . . . .	224,759,919	15,903,257	.....
<b>LOCAL SYSTEMS</b>			
Georgian Bay Division . . . . .	429,280	15,136	.....
Total retail distribution . . . . .	225,189,199	15,918,393	.....
<b>TOTAL FIXED ASSETS . . . . .</b>	<b>1,814,158,640</b>	<b>139,768,477</b>	<b>1,311,816</b>

Changes in Assets under Construction during 1961

Under construction at January 1, 1961 . . . . .	\$ 104,224,200
Add:	
Transfer from "in service" at January 1, 1961 (Note) . . . . .	1,311,816
Expenditures during 1961 . . . . .	86,282,141
	\$ 191,818,157
Deduct:	
Placed in service during 1961 . . . . .	139,768,477
Under construction at December 31, 1961 . . . . .	52,049,680

## SYSTEM

## ASSETS

## Year 1961 and Balances at December 31, 1961

service					
during year					
Equipment relocated and reclassified	Sales and retirements	Balance December 31, 1961	Under construction December 31, 1961	Total fixed assets December 31, 1961	Expenditures during 1961
\$	\$	\$	\$	\$	\$
604,948	760,509	10,128,021	407,830	10,535,851	422,957
59,962	10,882,011	1,665,620,224	49,152,349	1,714,772,573	66,358,014
103,528 .....	368,434 131,303	26,781,717 7,767,586	1,176,869 .....	27,958,586 7,767,586	3,509,131 422,881
103,528	499,737	34,549,303	1,176,869	35,726,172	3,932,012
44,515	10,170,566	230,448,095	1,718,709	232,166,804	15,975,644
949	2,786	442,579	1,753	444,332	16,471
43,566	10,173,352	230,890,674	1,720,462	232,611,136	15,992,115
.....	21,555,100	1,931,060,201	52,049,680	1,983,109,881	86,282,141

## Summary of Sales and Retirements during 1961

Charged to accumulated depreciation.....	\$ 10,758,621
Charged to construction in progress.....	433,296
Charged to operations.....	60,250
Proceeds from sales.....	10,302,933
	<u>21,555,100</u>

## NOTE:

The costs of lands acquired and engineering surveys undertaken for proposed projects have in prior years been classified as "in service" when incurred. The total of these costs in respect of plant not yet in service—\$1,311,816 at January 1, 1961—was transferred on that date to assets under construction.



SOUTHERN ONTARIO

ACCUMULATED DEPRECIATION

December 31, 1961

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1961...	\$ 171,236,208	\$ 50,969,212	\$ 7,668,659	\$ 229,874,079
Add:				
Interest at 3% per annum on accumulated deprecia- tion on plant not fully depreciated.....	4,514,318	1,511,841	80,577	6,106,736
Provision in the year				
—direct (Note 1).....	15,126,023	7,030,676	.....	22,156,699
—indirect.....	11,624	.....	892,800	904,424
Transfer from reserve for stabilization of rates and contingencies (Note 1)...	2,877,666	.....	.....	2,877,666
Adjustments re transfer of equipment.....	86,938	5,129	81,809	.....
	193,678,901	59,516,858	8,723,845	261,919,604
Deduct:				
Cost of fixed assets retired less proceeds from sales (Note 2).....	6,015,868	4,826,290	83,537	10,758,621
Frequency standardization costs (Note 2).....	1,024,215	.....	.....	1,024,215
Excess of removal costs over salvage recoveries on assets retired.....	204,061	101,650	574	306,285
Other adjustments.....	1,409	921	.....	488
	7,245,553	4,927,019	82,963	12,089,609
Balances at December 31, 1961	186,433,348	54,589,839	8,806,808	249,829,995

NOTES:

1. The transfer of \$2,877,666 represents a retroactive adjustment to reflect revised estimated service lives for certain classes of assets indicated by studies of retirement experience completed during the year. The provision for 1961 is computed at revised rates determined from these studies.
2. Accumulated depreciation for the Power System includes a special allowance for estimated capital losses and other costs in connection with 25-cycle equipment to be retired or converted as a result of frequency standardization. A summary of the charges against this special allowance in 1961 is noted below:

Balance at January 1, 1961.....	\$ 5,998,715
Deduct charges in 1961:	
Losses incurred on the retirement of 25-cycle equipment (included above in "Cost of fixed assets retired less pro- ceeds from sales").....	\$ 764,107
Other frequency standardization costs.....	1,024,215
	1,788,322
Balance at December 31, 1961.....	\$ 4,210,393

## SYSTEM

## FREQUENCY STANDARDIZATION ACCOUNT

December 31, 1961

Balance at January 1, 1961.....	\$188,548,084
Less portion of cost charged to cost of power for the year.....	9,683,567
Balance at December 31, 1961.....	\$178,864,517

## EXCHANGE DISCOUNT (NET) ON FUNDED DEBT

December 31, 1961

	Discount	Premium	Net discount
	\$	\$	\$
Exchange discount and premium on funded debt issued in United States funds:			
Balances at January 1, 1961.....	5,404,569	4,734,566	670,003
Less discount and premium at time of issue on bonds redeemed during 1961.....	19,564	17,666	1,898
Balances at December 31, 1961.....	5,385,005	4,716,900	668,105

SOUTHERN ONTARIO

STATEMENTS OF RESERVES,

Stabilization of Rates

	Power System	Rural Power District
	\$	\$
Balances at January 1, 1961 .....	122,207,139	2,511,208
Add:		
Interest for year on reserve balances (Note 1) .....	5,387,536	109,298
Provision in the year .....	.....	.....
Profit on redemption of funded debt and sale of investments, net .....	1,282,654	.....
	128,877,329	2,620,506
Deduct:		
Expenditures during the year .....	.....	.....
Withdrawals in the year applied in reduction of cost of power .....	3,500,000	.....
Excess of Rural Power District costs over revenue .....	.....	330,874
Transfer to accumulated depreciation (Note 2) .....	2,877,666	.....
Transfer to accounts payable .....	.....	.....
Miscellaneous charges .....	189,290	40,098
	6,566,956	370,972
Balances at December 31, 1961 .....	122,310,373	2,249,534

NOTE 1: Interest on maximum power cost portion was calculated at 4%, and on the other portions of the reserve at a rate approximating actual earnings on the investments held for the reserves.

NOTE 2: The transfer of \$2,877,666 represents a retroactive adjustment to reflect revised estimated service lives for certain classes of assets indicated by studies of retirement experience completed during the year.



## SYSTEM

DECEMBER 31, 1961

## and Contingencies

Sub-total	Portion of reserve earmarked for special purposes			Total
	Maximum power cost	Municipal direct customers	Nuclear research	
\$ 124,718,347	\$ 461,032	\$ 394,519	\$ 1,773,905	\$ 127,347,803
5,496,834	18,441	17,402	61,167	5,593,844
.....	.....	664,775	.....	664,775
1,282,654	.....	.....	.....	1,282,654
131,497,835	479,473	1,076,696	1,835,072	134,889,076
.....	.....	.....	1,511,404	1,511,404
3,500,000	18,441	.....	.....	3,518,441
330,874	.....	.....	.....	330,874
2,877,666	.....	.....	.....	2,877,666
.....	.....	.....	323,668	323,668
229,388	.....	.....	.....	229,388
6,937,928	18,441	.....	1,835,072	8,791,441
124,559,907	461,032	1,076,696	.....	126,097,635

## Sinking Fund

	Power System and Rural Power District	Administrative and service buildings and equipment	Total
	\$	\$	\$
Balances at January 1, 1961.....	307,778,945	3,945,421	311,724,366
Add:			
Interest at 4% per annum on reserve balances	12,311,158	157,817	12,468,975
Provision in the year—direct.....	18,380,260	.....	18,380,260
—indirect.....	5,864	258,872	264,736
	338,476,227	4,362,110	342,838,337
Deduct credits resulting from matured sinking funds (Note):			
Interest.....	2,512,378	45,335	2,557,713
Principal.....	661,383	11,934	673,317
	3,173,761	57,269	3,231,030
Balances at December 31, 1961.....	335,302,466	4,304,841	339,607,307

NOTE: The matured sinking funds at January 1, 1961 amounted to \$63,942,802.

## SOUTHERN ONTARIO

STATEMENT OF THE ALLOCATION  
for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Acton.....	3,865.9	19,051.4	151,361	19,330	3,138
Ailsa Craig.....	320.7	1,394.4	13,449	1,603	260
Ajax.....	5,864.7	30,483.5	213,411	.....	4,761
Alexandria.....	1,930.3	9,339.0	81,859	.....	1,567
Alfred.....	482.9	2,252.8	18,824	.....	392
Alliston.....	1,961.3	11,023.6	87,613	.....	1,592
Almonte.....	1,630.9	8,308.0	64,905	.....	1,324
Alvinston.....	238.9	956.6	10,049	1,195	194
Amherstburg.....	3,004.7	17,366.5	123,282	15,023	2,439
Ancaster Twp.....	2,388.4	11,668.2	90,072	11,942	1,939
Apple Hill.....	87.5	377.0	3,592	.....	71
Arkona.....	328.9	1,542.1	13,989	1,645	267
Arnprior.....	4,014.3	19,838.7	158,678	.....	3,259
Arthur.....	725.4	3,201.6	30,213	.....	589
Athens.....	395.3	2,016.8	16,358	.....	321
Aurora.....	5,298.0	28,740.8	202,996	26,490	4,301
Avonmore.....	166.3	662.4	6,444	.....	135
Aylmer.....	3,979.5	19,946.7	146,592	19,898	3,230
Ayr.....	670.5	2,943.6	28,069	3,352	544
Baden.....	861.3	3,329.0	31,191	4,306	699
Bancroft.....	1,249.2	5,199.1	51,514	.....	1,014
Barrie.....	17,618.5	94,893.8	632,020	.....	14,302
Barry's Bay.....	360.8	1,667.0	15,431	.....	293
Bath.....	304.5	1,462.6	12,848	.....	247
Beachburg.....	322.2	1,532.7	12,740	.....	262
Beachville.....	2,153.5	13,580.4	84,304	10,768	1,748
Beamsville.....	1,369.6	7,117.2	53,597	6,848	1,112
Beaverton.....	1,175.7	5,312.8	49,533	.....	955
Beeton.....	423.1	2,039.2	19,946	.....	344
Belle River.....	640.0	3,105.6	27,634	3,200	520
Belleville.....	21,685.1	119,689.8	773,206	.....	17,603
Blenheim.....	1,414.7	6,740.0	56,768	7,074	1,148
Bloomfield.....	402.0	1,660.5	15,333	.....	326
Blyth.....	614.0	2,898.8	26,164	3,070	498
Bobcaygeon.....	731.0	3,611.2	30,971	.....	593
Bolton.....	1,115.9	5,831.6	47,606	5,579	906
Bothwell.....	366.0	1,732.8	15,689	1,830	297
Bowmanville.....	5,887.8	29,928.5	213,979	.....	4,779
Bracebridge.....	84.5	198.3	3,849	.....	69
Bradford.....	1,740.5	9,141.6	72,059	.....	1,413

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance <i>credited</i> or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
4,306	163,247	166,234.78	2,987.78	43.00	42.23
3,584	11,208	12,668.96	1,460.96	39.50	34.95
.....	208,650	212,595.07	3,945.07	36.25	35.58
374	79,918	81,072.60	1,154.60	42.00	41.40
.....	18,432	18,231.05	200.95	37.75	38.17
228	85,793	89,238.77	3,445.77	45.50	43.74
.....	63,581	61,157.53	2,423.47	37.50	38.99
.....	11,050	10,989.01	60.99	46.00	46.25
1,536	134,330	138,215.05	3,885.05	46.00	44.71
.....	100,075	102,463.03	2,388.08	42.90	41.90
22	3,499	3,437.13	61.87	39.30	39.99
.....	15,367	15,538.56	171.56	47.25	46.72
.....	155,419	156,559.35	1,140.35	39.00	38.72
114	29,510	30,467.15	957.15	42.00	40.68
.....	16,037	16,207.99	170.99	41.00	40.57
.....	225,185	233,640.34	8,455.34	44.10	42.51
.....	6,309	6,487.04	178.04	39.00	37.94
2,606	160,654	165,548.24	4,894.24	41.60	40.38
1,862	29,015	29,635.76	620.76	44.20	43.27
4,234	30,564	33,332.96	2,768.96	38.70	35.48
.....	50,500	52,464.65	1,964.65	42.00	40.43
9,019	608,699	634,266.00	25,567.00	36.00	34.55
.....	15,138	15,696.27	558.27	43.50	41.96
.....	12,601	12,543.32	57.68	41.20	41.38
.....	12,478	12,242.01	235.99	38.00	38.73
5,200	88,124	95,183.97	7,059.97	44.20	40.93
.....	59,333	59,849.35	516.35	43.70	43.32
4,007	44,571	48,203.71	3,632.71	41.00	37.91
149	19,453	19,547.24	94.24	46.20	45.98
.....	30,314	30,528.03	214.03	47.70	47.37
.....	755,603	758,977.05	3,374.05	35.00	34.85
3,854	58,840	61,679.46	2,839.46	43.60	41.60
.....	15,007	15,395.96	388.96	38.30	37.33
.....	28,736	29,013.48	277.48	47.25	46.80
.....	30,378	30,408.90	30.90	41.60	41.56
3,621	48,658	49,992.32	1,334.32	44.80	43.61
3,724	13,493	14,494.59	996.59	39.60	36.89
.....	209,200	209,016.31	183.69	35.50	35.53
.....	3,780	3,379.68	400.32	40.00	44.74
91	70,555	72,055.01	1,500.01	41.40	40.54



## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Braeside.....	1,611.9	6,488.7	55,536	.....	1,308
Brampton.....	13,794.9	70,763.1	487,139	68,975	11,198
Brantford.....	42,507.2	223,507.3	1,482,623	212,535	34,506
Brantford Twp.....	5,723.7	27,418.5	212,353	28,618	4,646
Brechin.....	137.8	597.0	5,870	.....	112
Bridgeport.....	797.3	4,025.3	31,049	3,987	647
Brigden.....	222.9	989.6	9,405	1,114	181
Brighton.....	1,397.6	7,300.8	53,138	.....	1,135
Brockville.....	15,327.2	80,332.0	532,928	.....	12,442
Brussels.....	611.2	2,592.4	25,458	3,056	496
Burford.....	759.1	3,380.5	29,034	3,796	616
Burgessville.....	198.4	700.0	7,353	992	161
Burk's Falls.....	634.6	2,907.6	26,691	.....	515
Burlington.....	29,538.4	160,156.2	1,099,790	147,692	23,978
Caledonia.....	922.7	4,928.0	36,632	4,614	749
Campbellford.....	1,050.0	1,700.6	29,347	.....	852
Campbellville.....	145.7	665.8	5,897	728	118
Cannington.....	600.4	2,847.2	26,674	.....	488
Cardinal.....	877.4	4,401.4	35,695	.....	712
Carleton Place.....	2,990.4	16,659.0	129,862	.....	2,427
Casselman.....	704.6	2,972.8	29,104	.....	572
Cayuga.....	425.8	2,017.2	17,727	2,129	346
Chalk River.....	461.6	2,387.7	17,957	.....	375
Chatham.....	19,920.3	100,448.0	683,624	99,602	16,170
Chatsworth.....	263.0	1,134.0	11,516	.....	214
Chesley.....	1,167.2	4,957.6	46,893	.....	947
Chesterville.....	1,476.8	6,937.0	61,349	.....	1,199
Chippawa.....	1,235.0	6,481.4	48,135	6,175	1,003
Clifford.....	339.1	1,712.8	14,594	1,695	275
Clinton.....	2,179.9	11,130.1	84,609	10,900	1,770
Cobden.....	618.6	2,942.4	23,008	.....	502
Cobourg.....	9,217.1	47,080.6	330,666	.....	7,482
Colborne.....	847.3	4,407.8	37,492	.....	688
Coldwater.....	521.0	2,565.3	21,450	.....	423
Collingwood.....	6,144.9	29,283.0	237,289	.....	4,988
Comber.....	292.6	1,167.2	12,102	1,463	238
Cookstown.....	323.1	1,451.6	13,575	.....	262
Cottam.....	248.1	1,073.2	9,701	1,240	201
Courtright.....	161.1	731.6	6,577	806	131
Creemore.....	483.1	2,241.6	19,364	.....	392

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
.....	54,228	54,403.05	175.05	33.75	33.64
16,454	528,462	539,381.23	10,919.23	39.10	38.31
74,782	1,585,870	1,640,777.60	54,907.60	38.60	37.31
.....	236,325	246,117.32	9,792.32	43.00	41.29
1,983	3,775	4,272.84	497.84	31.00	27.40
.....	34,389	34,443.72	54.72	43.20	43.13
1,136	9,202	9,449.53	247.53	42.40	41.28
.....	52,003	51,712.12	290.88	37.00	37.21
17,014	503,472	511,927.92	8,455.92	33.40	32.85
.....	28,018	28,880.00	862.00	47.25	45.84
1,356	30,858	31,653.78	795.78	41.70	40.65
386	7,798	7,956.18	158.18	40.10	39.30
.....	26,176	28,365.51	2,189.51	44.70	41.25
.....	1,223,504	1,247,999.16	24,495.16	42.25	41.42
1,591	38,906	39,214.04	308.04	42.50	42.17
.....	28,495	37,798.50	9,303.50	36.00	27.14
5	6,502	6,628.23	126.23	45.50	44.63
2,989	23,197	24,795.49	1,598.49	41.30	38.64
.....	34,983	35,972.04	989.04	41.00	39.87
.....	127,435	128,588.64	1,153.64	43.00	42.62
.....	28,532	29,241.61	709.61	41.50	40.50
.....	19,510	19,673.91	163.91	46.20	45.82
.....	17,582	18,139.91	557.91	39.30	38.09
43,432	723,624	756,970.78	33,346.78	38.00	36.33
553	10,749	10,966.07	217.07	41.70	40.88
206	45,740	46,102.75	362.75	39.50	39.19
3,698	56,452	56,857.44	405.44	38.50	38.23
979	52,328	54,585.90	2,257.90	44.20	42.38
.....	16,014	16,004.35	9.65	47.20	47.23
4,326	89,413	93,953.34	4,540.34	43.10	41.02
.....	22,506	22,270.80	235.20	36.00	36.38
.....	323,184	331,813.80	8,629.80	36.00	35.07
.....	36,804	36,095.37	708.63	42.60	43.44
977	20,050	20,319.36	269.36	39.00	38.48
13,151	219,150	225,517.83	6,367.83	36.70	35.67
2,979	10,348	11,411.09	1,063.09	39.00	35.37
98	13,215	14,861.06	1,646.06	46.00	40.90
.....	10,740	10,817.52	77.52	43.60	43.29
.....	7,252	7,348.06	96.06	45.60	45.02
1,203	17,769	18,356.53	587.53	38.00	36.78

SOUTHERN ONTARIO

STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Dashwood.....	279.6	1,054.8	11,510	1,398	227
Deep River.....	3,404.0	18,207.2	126,548	.....	2,763
Delaware.....	220.5	928.4	8,864	1,102	179
Delhi.....	2,314.8	11,580.7	88,733	11,574	1,879
Deseronto.....	973.8	5,021.8	42,293	.....	790
Dorchester.....	404.6	1,886.8	16,091	2,023	328
Drayton.....	363.3	1,544.2	14,548	1,817	295
Dresden.....	1,408.7	6,603.2	57,121	7,043	1,144
Drumbo.....	226.7	958.4	9,629	1,134	184
Dublin.....	251.6	1,076.4	9,720	1,258	204
Dundalk.....	593.8	2,599.2	26,685	.....	482
Dundas.....	8,230.6	42,588.9	287,725	41,153	6,681
Dunnville.....	3,404.9	17,019.3	135,142	17,024	2,764
Durham.....	1,526.5	6,754.0	62,755	.....	1,239
Dutton.....	373.3	1,761.8	17,679	1,867	303
East York Twp.....	33,815.3	190,346.5	1,209,550	169,076	27,450
Eganville.....	606.5	2,903.2	24,232	.....	492
Elmira.....	3,810.7	17,505.5	143,466	19,054	3,093
Elmvale.....	571.9	2,844.8	24,396	.....	464
Elmwood.....	188.5	635.8	7,845	.....	153
Elora.....	816.2	3,741.4	35,359	4,081	663
Embro.....	366.9	1,676.8	14,830	1,834	298
Erieau.....	357.4	1,772.8	14,998	1,787	290
Erie Beach.....	62.2	222.2	2,479	311	50
Erin.....	567.0	2,688.0	23,812	.....	460
Essex.....	1,513.3	7,736.3	58,076	7,567	1,228
Etobicoke Twp.....	114,715.9	674,711.9	4,195,426	573,579	93,122
Exeter.....	2,155.6	10,352.4	91,466	10,778	1,750
Fergus.....	3,500.4	15,211.4	132,915	17,502	2,841
Finch.....	274.2	1,089.6	11,099	.....	223
Flesherton.....	392.3	1,518.4	14,719	.....	318
Fonthill.....	1,120.1	5,630.2	44,140	5,601	909
Forest.....	1,323.8	7,652.0	57,342	6,619	1,075
Forest Hill.....	13,341.4	73,885.2	472,283	66,707	10,830
Frankford.....	686.8	3,512.7	26,713	.....	558
Galt.....	23,806.8	118,229.6	811,821	119,034	19,325
Georgetown.....	7,532.7	41,688.6	284,586	37,663	6,115
Glencoe.....	551.7	2,626.4	23,703	2,759	448
Goderich.....	5,796.4	29,611.5	229,765	28,982	4,705
Grand Bend.....	774.5	3,569.6	32,456	3,872	629



## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	
702	11,979	12,023.89	44.39	43.00	42.85
.....	123,785	124,246.92	461.92	36.50	36.37
386	9,401	9,656.46	255.46	43.80	42.64
.....	98,428	101,620.10	3,192.10	43.90	42.52
.....	41,508	42,651.73	1,143.73	43.80	42.63
633	17,153	18,006.56	853.56	44.50	42.40
739	15,331	15,692.40	361.40	43.20	42.20
4,149	58,871	61,984.62	3,113.62	44.00	41.79
544	10,035	10,134.24	99.24	44.70	44.26
402	10,372	10,140.50	231.50	40.30	41.22
1,535	24,678	25,237.56	559.56	42.50	41.56
18,985	303,212	320,991.48	17,779.48	39.00	36.84
3,633	145,769	151,518.43	5,749.43	44.50	42.81
2,999	58,517	59,228.84	711.84	38.80	38.34
2,398	16,845	17,395.40	550.40	46.60	45.13
.....	1,351,176	1,349,231.13	1,944.87	39.90	39.96
.....	23,740	24,139.04	399.04	39.80	39.14
6,352	153,075	161,574.74	8,499.74	42.40	40.17
1,751	22,181	22,875.35	694.35	40.00	38.79
46	7,646	7,802.52	156.52	41.40	40.57
4,542	34,235	34,851.04	616.04	42.70	41.95
1,519	14,847	15,408.40	561.40	42.00	40.47
.....	16,495	16,441.55	53.45	46.00	46.15
.....	2,740	2,785.31	45.31	44.75	44.05
.....	23,352	23,927.38	575.38	42.20	41.19
886	63,529	65,523.73	1,994.73	43.30	41.98
5,118	4,670,765	4,760,709.51	89,944.51	41.50	40.72
2,581	97,913	98,079.06	166.96	45.50	45.42
4,302	143,274	147,718.63	4,444.63	42.20	40.93
.....	10,876	11,186.34	310.34	40.80	39.67
842	13,559	14,280.02	721.02	36.40	34.56
.....	48,832	48,445.76	386.24	43.25	43.60
1,730	61,156	64,071.52	2,915.52	48.40	46.20
.....	528,160	538,993.23	10,833.23	40.40	39.59
.....	26,155	25,000.74	1,154.26	36.40	38.08
48,075	863,455	899,895.80	36,440.80	37.80	36.27
12,286	303,848	317,878.54	14,030.54	42.20	40.34
1,026	24,988	25,820.34	832.34	46.80	45.29
13,141	240,901	249,244.48	8,343.48	43.00	41.56
7	35,692	35,935.63	243.63	46.40	46.10

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Grand Valley .....	474.3	1,944.6	20,363	.....	385
Granton .....	105.7	457.8	4,304	529	86
Gravenhurst .....	2,389.1	12,112.4	95,370	.....	1,939
Grimsby .....	2,651.1	14,234.0	106,697	13,255	2,152
Guelph .....	34,098.3	180,915.1	1,175,857	170,492	27,680
Hagersville .....	1,606.3	6,407.5	62,788	8,031	1,304
Hamilton .....	331,542.8	2,130,850.1	12,243,152	1,408,014	269,133
Hanover .....	3,937.1	16,993.5	142,802	.....	3,196
Harriston .....	1,200.8	6,227.8	49,400	6,004	975
Harrow .....	1,264.0	6,321.6	53,076	6,320	1,026
Hastings .....	441.1	2,164.8	17,598	.....	358
Havelock .....	540.7	2,754.4	22,173	.....	439
Hawkesbury .....	3,161.9	16,847.2	110,706	.....	2,567
Hensall .....	743.4	3,409.6	30,847	3,717	603
Hespeler .....	5,504.8	27,193.0	195,619	27,524	4,469
Highgate .....	196.1	720.4	7,987	981	159
Holstein .....	117.2	431.4	4,813	.....	95
Huntsville .....	2,263.7	12,605.9	94,617	.....	1,838
Ingersoll .....	5,340.5	25,875.8	202,062	26,702	4,335
Iroquois .....	748.5	3,774.7	28,701	.....	608
Jarvis .....	353.9	1,632.0	14,729	1,770	287
Kemptville .....	1,600.8	7,791.1	68,102	.....	1,299
Killaloe Station .....	269.9	1,300.5	11,454	.....	219
Kincardine .....	2,135.1	11,260.6	93,947	.....	1,733
Kingston .....	38,651.6	219,908.3	1,381,150	.....	31,376
Kingsville .....	1,699.5	8,438.3	65,093	8,497	1,380
Kirkfield .....	87.6	373.4	3,755	.....	71
Kitchener .....	67,785.9	352,105.7	2,148,288	338,930	55,026
Lakefield .....	1,313.8	6,328.8	49,349	.....	1,066
Lambeth .....	908.7	4,107.3	36,087	4,543	738
Lanark .....	336.5	1,608.6	13,704	.....	273
Lancaster .....	264.4	1,270.8	10,923	.....	215
Leamington .....	5,901.7	31,257.6	232,522	29,509	4,791
Lindsay .....	8,426.9	48,419.6	348,175	.....	6,841
Listowel .....	3,148.9	14,911.6	118,716	15,744	2,556
London .....	103,450.4	599,850.6	3,717,506	517,252	83,977
Long Branch .....	6,335.3	35,501.6	237,750	31,677	5,143
L'Orignal .....	373.3	1,815.8	14,054	.....	303
Lucan .....	553.2	2,606.4	23,792	2,766	449
Lucknow .....	695.5	3,256.0	30,212	.....	565

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance <i>credited</i> or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
54	19,924	20,395.61	471.61	43.00	42.01
665	4,082	4,100.85	18.85	38.80	38.62
1,907	91,524	94,609.02	3,085.02	39.60	38.31
.....	117,800	120,094.84	2,294.84	45.30	44.44
65,199	1,253,470	1,261,636.17	8,166.17	37.00	36.76
7,293	62,222	65,055.52	2,833.52	40.50	38.74
274,636	13,107,397	13,328,019.59	220,622.59	40.20	39.54
887	138,719	139,765.90	1,046.90	35.50	35.24
3,073	51,356	50,795.26	560.74	42.30	42.77
296	58,074	58,774.48	700.48	46.50	45.95
.....	17,240	17,643.66	403.66	40.00	39.09
.....	21,734	22,440.79	706.79	41.50	40.20
.....	108,139	109,719.39	1,580.39	34.70	34.20
783	33,178	33,453.00	275.00	45.00	44.63
6,778	211,896	219,642.21	7,746.21	39.90	38.50
658	8,151	8,039.43	111.57	41.00	41.56
8	4,710	4,982.77	272.77	42.50	40.19
.....	92,779	95,982.64	3,203.64	42.40	40.99
18,079	206,350	222,163.07	15,813.07	41.60	38.64
.....	28,093	28,444.60	351.60	38.00	37.53
.....	16,212	16,669.10	457.10	47.10	45.81
.....	66,803	67,714.56	911.56	42.30	41.73
.....	11,235	11,200.53	34.47	41.50	41.63
49	92,165	95,437.12	3,272.12	44.70	43.17
.....	1,349,774	1,348,939.69	834.31	34.90	34.92
957	71,253	72,057.76	804.76	42.40	41.93
325	3,359	3,634.72	275.72	41.50	38.35
109,167	2,323,025	2,440,293.00	117,268.00	36.00	34.27
.....	48,283	46,244.00	2,039.00	35.20	36.75
862	39,030	39,620.41	590.41	43.60	42.95
.....	13,431	13,628.60	197.60	40.50	39.92
24	10,684	11,050.18	366.18	41.80	40.41
1,128	256,112	264,395.79	8,283.79	44.80	43.40
.....	341,334	342,133.84	799.84	40.60	40.51
6,892	125,012	129,733.64	4,721.64	41.20	39.70
238,012	3,912,769	4,075,946.43	163,177.43	39.40	37.82
.....	264,284	262,916.34	1,367.66	41.50	41.72
.....	13,751	15,678.25	1,927.25	42.00	36.84
4,236	21,873	24,507.91	2,634.91	44.30	39.54
34	29,613	30,601.62	988.62	44.00	42.58



SOUTHERN ONTARIO

STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Lynden.....	287.1	1,322.3	11,619	1,435	233
Madoc.....	859.7	4,317.6	37,063		698
Magnetawan.....	83.4	375.6	3,642		68
Markdale.....	731.4	3,335.6	30,081		594
Markham.....	2,759.8	13,438.5	109,161	13,799	2,240
Marmora.....	700.8	3,458.4	29,503		569
Martintown.....	162.8	632.7	6,268		132
Maxville.....	449.1	1,865.0	20,144		365
Meaford.....	2,832.4	14,160.9	121,902		2,299
Merlin.....	290.1	1,366.4	11,885	1,451	235
Merrickville.....	438.5	2,189.9	17,743		356
Midland.....	8,152.4	41,876.3	308,048		6,618
Mildmay.....	467.8	2,197.0	19,153		380
Millbrook.....	444.0	2,075.8	19,650		360
Milton.....	3,756.0	20,054.3	149,536	18,780	3,049
Milverton.....	842.3	3,411.2	35,035	4,211	684
Mimico.....	8,386.8	46,159.9	302,606	41,934	6,808
Mitchell.....	1,920.7	9,416.1	73,828	9,604	1,559
Moorefield.....	258.1	1,053.2	10,022	1,290	210
Morrisburg.....	1,276.7	6,512.0	48,767		1,036
Mount Brydges.....	360.3	1,599.6	14,313	1,802	292
Mount Forest.....	1,968.5	9,057.6	80,752		1,598
Napanee.....	3,296.2	16,285.8	135,023		2,676
Neustadt.....	281.0	1,096.9	10,706		228
Newboro.....	103.6	433.7	3,976		84
Newburgh.....	248.0	1,117.2	10,487		201
Newbury.....	112.6	520.6	4,816	563	91
Newcastle.....	848.5	4,084.2	31,723		689
New Hamburg.....	1,340.9	6,364.0	54,803	6,704	1,088
Newmarket.....	6,486.9	33,587.5	240,208	32,435	5,266
New Toronto.....	27,419.5	150,872.9	996,648	137,097	22,258
Niagara.....	1,582.3	8,732.0	62,232	7,912	1,284
Niagara Falls.....	16,020.2	88,837.6	573,128	80,101	13,005
North York Twp.....	164,646.3	938,033.9	5,974,738	823,231	133,653
Norwich.....	863.4	4,441.0	37,201	4,317	701
Norwood.....	607.9	2,867.2	24,638		493
Oakville.....	32,888.3	202,992.4	1,258,048	164,442	26,697
Oil Springs.....	253.0	1,533.2	11,522	1,265	205
Omeme.....	379.5	1,911.1	16,819		308
Orangeville.....	3,237.7	16,242.5	138,375		2,628

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
2,566	10,255	10,994.66	739.66	38.30	35.72
.....	36,365	36,710.65	345.65	42.70	42.30
.....	3,574	3,719.29	145.29	44.60	42.86
73	29,414	30,938.95	1,524.95	42.30	40.22
770	119,950	123,639.79	3,689.79	44.80	43.46
.....	28,934	29,433.25	499.25	42.00	41.29
13	6,123	6,155.13	32.13	37.80	37.61
76	19,703	19,986.80	283.80	44.50	43.87
.....	119,603	125,190.25	5,587.25	44.20	42.23
.....	13,101	13,114.04	13.04	45.20	45.16
.....	17,387	17,977.14	590.14	41.00	39.65
12,770	288,660	293,485.20	4,825.20	36.00	35.41
.....	18,773	18,711.67	61.33	40.00	40.13
.....	19,290	19,091.29	198.71	43.00	43.45
13,021	152,246	158,880.23	6,634.23	42.30	40.53
4,007	34,555	34,198.06	356.94	40.60	41.02
7,138	330,594	339,666.09	9,072.09	40.50	39.42
4,032	77,841	81,435.56	3,594.56	42.40	40.53
404	10,698	10,944.87	246.87	42.40	41.45
.....	47,731	48,514.28	783.28	38.00	37.39
841	14,982	15,602.45	620.45	43.30	41.59
3,952	75,202	78,346.65	3,144.65	39.80	38.20
.....	132,347	135,968.95	3,621.95	41.25	40.15
108	10,370	10,875.02	505.02	38.70	36.91
.....	3,892	3,863.05	28.95	37.30	37.57
.....	10,286	10,290.62	4.62	41.50	41.48
162	5,126	5,098.52	27.48	45.30	45.52
.....	31,034	31,054.22	20.22	36.60	36.58
4,733	55,686	56,852.75	1,166.75	42.40	41.53
4	267,373	269,204.29	1,831.29	41.50	41.22
53,958	1,057,529	1,113,231.37	55,702.37	40.60	38.57
2,636	66,224	69,622.29	3,398.29	44.00	41.85
51,615	588,709	624,788.79	36,079.79	39.00	36.75
3	6,664,313	6,775,196.59	110,883.59	41.15	40.47
5,346	35,471	36,955.31	1,484.31	42.80	41.09
.....	24,145	27,507.85	3,362.85	45.25	39.72
.....	1,395,793	1,401,043.01	5,250.01	42.60	42.44
1,726	10,856	10,624.95	231.05	42.00	42.91
.....	16,511	16,319.93	191.07	43.00	43.51
121	135,626	138,412.75	2,786.75	42.75	41.89

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Orillia.....	5,177.5	25,547.7	213,974	.....	4,203
Orono.....	506.8	2,341.5	20,014	.....	411
Oshawa.....	66,179.3	352,908.4	2,272,576	.....	53,722
Ottawa.....	161,775.3	880,292.9	5,669,404	.....	131,322
Otterville.....	390.6	1,809.2	15,170	1,953	317
Owen Sound.....	11,784.3	59,932.9	434,196	.....	9,566
Paisley.....	446.0	2,092.4	17,864	.....	362
Palmerston.....	1,098.3	5,551.5	37,985	5,492	892
Paris.....	3,396.5	16,400.0	119,291	16,982	2,757
Parkhill.....	844.1	4,052.0	36,109	4,220	685
Parry Sound.....	2,174.6	12,908.9	93,180	.....	1,765
Penetanguishene.....	2,644.5	14,417.7	105,465	.....	2,147
Perth.....	4,008.3	18,413.6	158,977	.....	3,254
Peterborough.....	36,362.8	215,755.8	1,349,014	.....	29,518
Petrolia.....	1,583.7	8,018.8	68,828	7,919	1,286
Petrolia Water Works.....	150.2	704.5	5,911	751	122
Pickering.....	832.0	4,340.4	32,560	.....	675
Pictou.....	3,506.6	18,398.0	140,597	.....	2,847
Plattsville.....	634.4	2,668.8	24,507	3,172	515
Point Edward.....	4,187.1	17,469.2	144,064	20,935	3,399
Port Burwell.....	243.1	1,092.4	10,095	1,216	197
Port Colborne.....	5,721.4	31,456.9	218,537	28,607	4,644
Port Credit.....	11,525.0	78,744.2	460,287	57,625	9,356
Port Dover.....	2,024.0	11,087.0	78,395	10,120	1,643
Port Elgin.....	1,147.1	6,038.6	51,760	.....	931
Port Hope.....	7,515.6	39,527.4	266,000	.....	6,101
Port McNicoll.....	1,096.9	3,606.8	39,927	.....	890
Port Perry.....	1,293.4	6,256.8	55,758	.....	1,050
Port Rowan.....	249.6	1,295.9	10,567	1,248	203
Port Stanley.....	996.1	5,117.6	43,194	4,980	809
Prescott.....	3,276.3	16,442.3	133,244	.....	2,660
Preston.....	8,523.2	43,318.5	299,657	42,616	6,919
Priceville.....	48.6	201.2	2,009	.....	39
Princeton.....	242.3	1,131.0	10,028	1,212	197
Queenston.....	354.5	1,871.1	13,601	1,772	288
Renfrew.....	4,137.5	19,305.1	160,805	.....	3,359
Richmond.....	592.7	2,900.4	21,780	.....	481
Richmond Hill.....	9,104.2	46,736.3	356,512	45,521	7,390
Ridgetown.....	1,356.8	6,366.3	57,488	6,784	1,101
Ripley.....	306.7	1,311.2	13,033	.....	249
Riverside.....	6,478.1	29,651.4	235,001	32,391	5,259



## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance <i>credited</i> or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
.....	209,771	206,063.20	3,707.80	39.80	40.52
.....	19,603	19,765.23	<i>162.23</i>	39.00	38.68
.....	2,218,854	2,289,804.93	<i>70,950.93</i>	34.60	33.53
46	5,538,036	5,532,714.16	5,321.84	34.20	34.23
535	16,271	16,250.70	20.30	41.60	41.66
20,932	403,698	421,877.65	<i>18,179.65</i>	35.80	34.26
.....	17,502	17,884.62	<i>382.62</i>	40.10	39.24
2,752	39,833	41,074.57	<i>1,241.57</i>	37.40	36.27
11,896	121,620	128,726.10	<i>7,106.10</i>	37.90	35.81
784	38,860	39,166.25	<i>306.25</i>	46.40	46.04
.....	91,415	93,940.56	<i>2,525.56</i>	43.20	42.04
8,171	95,147	95,200.20	<i>53.20</i>	36.00	35.98
.....	155,723	159,127.88	<i>3,404.88</i>	39.70	38.85
.....	1,319,496	1,309,061.10	10,434.90	36.00	36.29
8,524	66,937	65,722.17	1,214.83	41.50	42.27
.....	6,540	6,669.23	<i>129.23</i>	44.40	43.54
.....	31,885	32,448.67	<i>563.67</i>	39.00	38.32
.....	137,750	138,511.04	<i>761.04</i>	39.50	39.28
828	26,336	27,023.70	<i>687.70</i>	42.60	41.51
2,469	159,131	166,436.23	<i>7,305.23</i>	39.75	38.01
16	11,098	11,304.54	<i>206.54</i>	46.50	45.65
.....	242,500	243,161.27	<i>661.27</i>	42.50	42.39
2,163	506,393	530,151.92	<i>23,758.92</i>	46.00	43.94
.....	86,872	88,247.12	<i>1,375.12</i>	43.60	42.92
.....	50,829	51,904.02	<i>1,075.02</i>	45.25	44.31
.....	259,899	270,563.10	<i>10,664.10</i>	36.00	34.58
444	38,593	38,720.56	<i>127.56</i>	35.30	35.19
.....	54,708	56,002.43	<i>1,294.43</i>	43.30	42.30
.....	11,612	11,531.54	80.46	46.20	46.53
4,683	42,682	44,723.38	<i>2,041.38</i>	44.90	42.85
3,252	127,332	127,776.72	<i>444.72</i>	39.00	38.87
27,443	307,911	328,141.60	<i>20,230.60</i>	38.50	36.13
3	1,967	2,129.80	<i>162.80</i>	43.80	40.47
643	10,400	10,369.02	30.98	42.80	42.93
288	14,797	15,244.60	<i>447.60</i>	43.00	41.75
.....	157,446	159,293.45	<i>1,847.45</i>	38.50	38.06
.....	21,299	21,691.60	<i>392.60</i>	36.60	35.94
.....	394,643	410,598.67	<i>15,955.67</i>	45.10	43.35
4,646	58,525	60,377.99	<i>1,852.99</i>	44.50	43.14
33	12,751	13,402.44	<i>651.44</i>	43.70	41.57
.....	262,133	279,851.76	<i>17,718.76</i>	43.20	40.47

## SOUTHERN ONTARIO

## STATEMENT OF THE ALLOCATION

for the Year

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Rockland.....	990.7	4,932.2	37,412	.....	804
Rockwood.....	399.2	1,938.4	18,179	1,996	324
Rodney.....	485.8	2,314.4	20,142	2,429	394
Rosseau.....	105.8	465.6	4,574	.....	86
Russell.....	297.1	1,349.3	10,981	.....	241
St. Catharines.....	72,697.7	397,425.9	2,570,311	363,488	59,013
St. Clair Beach.....	582.4	2,790.5	22,538	2,912	473
St. George.....	464.4	2,279.3	18,769	2,322	377
St. Jacobs.....	498.9	1,976.8	21,462	2,495	405
St. Mary's.....	9,333.5	64,153.9	358,746	46,667	7,577
St. Thomas.....	15,105.2	83,497.3	533,285	75,526	12,262
Sandwich East Twp.....	6,218.8	31,981.0	223,107	31,094	5,048
Sandwich West Twp.....	11,308.4	57,296.9	417,747	56,542	9,180
Sarnia.....	128,094.2	1,026,189.8	5,152,286	640,471	103,981
Scarborough Twp.....	132,303.7	710,374.0	4,716,872	661,519	107,399
Seaforth.....	1,627.4	7,576.4	55,324	8,137	1,321
Shelburne.....	849.9	3,906.0	37,356	.....	690
Simcoe.....	7,245.2	39,288.1	259,899	36,226	5,881
Smith's Falls.....	7,078.7	35,359.8	248,271	.....	5,746
Smithville.....	554.7	2,558.6	22,972	2,773	450
Southampton.....	1,085.1	5,886.8	49,845	.....	881
Springfield.....	232.1	957.2	8,496	1,161	188
Stamford Twp.....	15,559.7	85,229.0	557,413	77,798	12,631
Stayner.....	993.0	4,896.0	38,552	.....	806
Stirling.....	915.5	4,190.5	32,969	.....	743
Stoney Creek.....	3,470.1	17,359.2	132,501	17,351	2,817
Stouffville.....	1,918.3	8,919.7	78,300	9,591	1,557
Stratford.....	15,728.0	83,012.1	546,173	78,640	12,767
Strathroy.....	3,457.4	18,030.6	121,170	17,287	2,807
Streetsville.....	2,937.4	15,050.5	109,966	14,687	2,384
Sunderland.....	408.4	1,844.8	17,233	.....	332
Sundridge.....	333.0	1,633.8	14,598	.....	270
Sutton.....	973.6	5,076.8	41,635	4,868	790
Swansea.....	5,791.8	34,097.3	213,404	28,959	4,702
Tara.....	447.6	2,124.4	18,760	.....	363
Tavistock.....	789.5	4,018.2	32,684	3,948	641
Tecumseh.....	1,297.1	6,542.0	50,639	6,485	1,053
Teeswater.....	683.6	3,133.2	29,900	.....	555
Thamesford.....	731.4	3,674.4	31,938	3,657	594
Thamesville.....	718.9	3,013.5	30,709	3,595	584

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
.....	36,608	36,061.80	546.20	36.40	36.95
1,486	18,365	18,442.68	77.68	46.20	46.01
894	21,283	21,472.37	189.37	44.20	43.81
.....	4,488	4,506.05	18.05	42.60	42.42
.....	10,740	10,786.26	46.26	36.30	36.15
.....	2,874,786	2,922,449.22	47,663.22	40.20	39.55
.....	24,977	25,219.35	242.35	43.30	42.89
1,821	18,893	19,598.38	705.38	42.20	40.69
1,084	22,468	22,899.52	431.52	45.90	45.04
18,052	379,784	394,807.06	15,023.06	42.30	40.70
43,331	553,218	593,633.71	40,415.71	39.30	36.62
.....	249,153	266,787.96	17,634.96	42.90	40.07
.....	465,109	482,869.40	17,760.40	42.70	41.13
38,927	5,649,849	5,668,169.83	18,320.83	44.25	44.11
2,448	5,268.544	5,411,221.34	142,677.34	40.90	39.82
8,829	53,311	58,587.90	5,276.90	36.00	32.76
152	36,514	37,396.35	882.35	44.00	42.96
4,635	285,609	293,429.95	7,820.95	40.50	39.42
.....	242,525	243,506.12	981.12	34.40	34.26
.....	25,295	25,016.22	278.78	45.10	45.60
.....	48,964	49,373.93	409.93	45.50	45.13
529	8,940	9,516.09	576.09	41.00	38.51
6,345	616,235	629,389.17	13,154.17	40.45	39.60
1,710	36,036	37,038.29	1,002.29	37.30	36.29
.....	32,226	32,957.70	731.70	36.00	35.20
.....	147,035	151,294.54	4,259.54	43.60	42.37
.....	86,334	87,857.78	1,523.78	45.80	45.01
41,916	570,130	592,944.04	22,814.04	37.70	36.25
9,180	126,470	133,799.76	7,329.76	38.70	36.58
.....	122,269	125,428.77	3,159.77	42.70	41.63
2,434	14,467	16,170.99	1,703.99	39.60	35.43
.....	14,328	14,983.13	655.13	45.00	43.03
.....	45,713	45,761.16	48.16	47.00	46.85
.....	237,661	242,676.42	5,015.42	41.90	41.04
35	18,362	18,576.11	214.11	41.50	41.02
3,910	32,081	33,159.35	1,078.35	42.00	40.64
.....	56,071	56,811.91	740.91	43.80	43.23
52	29,293	30,216.97	923.97	44.20	42.85
2,360	32,671	33,423.09	752.09	45.70	44.67
1,853	31,867	32,565.43	698.43	45.30	44.33



**SOUTHERN ONTARIO**  
**STATEMENT OF THE ALLOCATION**  
**for the Year**

Municipality	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Thedford .....	430.8	2,125.2	18,570	2,154	350
Thornbury .....	842.3	4,159.2	36,526	.....	684
Thorndale .....	239.9	940.4	9,544	1,199	195
Thornton .....	120.2	511.6	4,746	.....	98
Thorold .....	11,529.3	70,349.5	423,265	57,647	9,359
Tilbury .....	1,320.1	5,816.4	55,027	6,600	1,072
Tillsonburg .....	5,026.9	24,723.2	170,872	25,135	4,081
Toronto .....	585,156.3	3,473,609.7	20,979,730	2,925,781	475,004
Toronto Twp. ....	49,757.6	325,034.3	1,922,115	248,788	40,391
Tottenham .....	385.6	1,927.6	16,913	.....	313
Trenton .....	14,866.7	89,998.7	540,821	.....	12,068
Tweed .....	1,123.1	5,155.3	42,872	.....	912
Uxbridge .....	1,614.0	7,939.2	70,375	.....	1,310
Vankleek Hill .....	605.4	2,805.2	22,807	.....	491
Victoria Harbour .....	358.8	1,628.8	15,620	.....	291
Walkerton .....	2,904.1	12,506.3	103,970	.....	2,357
Wallaceburg .....	7,392.6	42,364.3	269,921	36,963	6,001
Wardsville .....	170.1	797.8	7,259	851	138
Warkworth .....	280.2	1,141.6	10,808	.....	227
Wasaga Beach .....	736.6	2,721.6	28,528	.....	598
Waterdown .....	966.0	4,885.3	36,408	4,830	784
Waterford .....	988.4	4,598.8	38,763	4,942	802
Waterloo .....	16,765.2	90,306.3	537,735	83,826	13,609
Watford .....	1,247.3	5,631.4	51,975	6,236	1,013
Waubashene .....	319.4	1,445.6	13,841	.....	259
Welland .....	20,321.8	106,811.3	717,829	101,609	16,496
Wellesley .....	409.7	1,676.8	16,024	2,049	333
Wellington .....	564.2	2,505.4	24,684	.....	458
West Lorne .....	965.4	4,159.2	40,306	4,827	784
Weston .....	8,531.7	46,001.3	308,258	42,658	6,926
Westport .....	361.2	1,755.2	14,545	.....	293
Wheatley .....	794.9	3,449.6	33,321	3,975	645
Whitby .....	10,779.8	58,131.1	379,687	.....	8,751
Wiarton .....	1,242.1	6,528.0	55,058	.....	1,008
Williamsburg .....	228.9	981.8	9,740	.....	186
Winchester .....	1,165.3	6,230.2	49,674	.....	947
Windermere .....	133.6	562.2	5,433	.....	108
Windsor .....	75,903.4	391,393.7	2,626,503	379,517	61,615
Wingham .....	2,267.5	11,481.7	92,285	.....	1,841
Woodbridge .....	1,948.2	9,938.9	77,807	9,741	1,581
Woodville .....	197.4	894.8	8,800	.....	160
Woodstock .....	17,242.5	97,425.6	611,856	86,212	13,997
Wyoming .....	375.1	1,768.4	16,091	1,876	304
York Twp. ....	59,113.6	345,523.7	2,114,415	295,568	47,986
Zurich .....	398.5	1,765.2	16,937	1,992	323
Total—Municipalities .....	3,184,764.2	18,291,018.0	116,046,697	12,715,215	2,585,257

## SYSTEM

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power		Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Credit resulting from matured sinking fund	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$
.....	20,374	20,248.00	126.00	47.00	47.30
.....	35,842	37,059.75	1,217.75	44.00	42.55
1,499	9,049	9,860.24	811.24	41.10	37.72
21	4,627	4,652.07	25.07	38.70	38.50
.....	471,553	480,770.10	9,217.10	41.70	40.90
3,457	57,098	60,063.43	2,965.43	45.50	43.25
8,686	183,240	190,517.62	7,277.62	37.90	36.45
937,380	22,493,127	22,967,386.10	474,259.10	39.25	38.44
4,585	2,125,927	2,161,968.07	36,041.07	43.45	42.73
60	16,540	17,083.94	543.94	44.30	42.89
.....	528,753	516,617.54	12,135.46	34.75	35.57
.....	41,960	42,115.95	155.95	37.50	37.36
.....	69,065	70,368.59	1,303.59	43.60	42.79
.....	22,316	25,426.10	3,110.10	42.00	36.86
706	14,623	15,070.65	447.65	42.00	40.75
.....	101,613	105,710.75	4,097.75	36.40	34.99
16,212	284,671	299,398.97	14,727.97	40.50	38.51
39	7,933	7,975.73	42.73	46.90	46.63
.....	10,581	10,787.05	206.05	38.50	37.76
.....	27,930	28,802.05	872.05	39.10	37.92
2,551	37,903	39,316.20	1,413.20	40.70	39.24
2,558	40,345	40,525.44	180.44	41.00	40.82
22,657	585,295	603,548.40	18,253.40	36.00	34.91
1,029	56,169	56,876.88	707.88	45.60	45.04
352	13,230	13,189.85	40.15	41.30	41.42
25,114	777,828	792,548.60	14,720.60	39.00	38.27
1,727	16,013	16,181.19	168.19	39.50	39.08
.....	24,226	24,599.85	373.85	43.60	42.94
2,205	42,144	41,510.04	633.96	43.00	43.66
16,793	327,197	342,972.69	15,775.69	40.20	38.35
.....	14,252	14,232.28	19.72	39.40	39.46
.....	36,651	36,803.89	152.89	46.30	45.11
.....	370,936	375,138.49	4,202.49	34.80	34.41
.....	54,050	56,269.05	2,219.05	45.30	43.52
302	9,252	9,613.45	361.45	42.00	40.42
1,839	46,888	47,779.00	891.00	41.00	40.24
.....	5,325	5,465.94	140.94	40.90	39.86
180,414	2,763,991	2,884,328.57	120,337.57	38.00	36.41
243	90,201	96,369.11	6,168.11	42.50	39.78
3,594	82,373	83,774.05	1,401.05	43.00	42.29
2,646	5,994	6,910.45	916.45	35.00	30.37
29,699	654,372	686,253.17	31,881.17	39.80	37.96
611	17,052	16,767.35	284.65	44.70	45.46
21,149	2,340,848	2,402,965.82	62,117.82	40.65	39.60
839	17,767	17,692.29	74.71	44.40	44.58
2,872,606	123,304,049	126,031,436.45	2,727,387.45	.....	.....

**SOUTHERN ONTARIO**  
**Summary of the Allocation**  
**for the Year**

	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardiza- tion	Net withdrawal from stabilization of rates reserve
	kw	megawatt- hours	\$	\$	\$
Municipalities.....	3,184,764.2	18,291,018.0	116,046,697	12,715,215	2,585,257
Rural Power District.....	494,494.6	2,567,932.0	20,535,712	1,343,426	401,410
Direct customers:					
Municipal.....	246,443.5	1,891,568.3	9,234,797	271,249	{ 200,052 664,775 }
Rural.....	384,696.4	2,498,314.1	13,610,377	308,990	312,280
Local distribution systems.....	1,233.2	5,287.0	112,575	.....	1,001
60-cycle secondary export energy.....	.....	.....	55,043	2,237,055	.....
GRAND TOTAL.....	4,311,631.9	25,254,119.4	159,595,201 (Note 1)	16,925,935 (Note 2)	2,835,225 (Note 3)

NOTES

1. The total of \$159,595,201 shown under the heading "Power purchased, operating costs, and fixed charges" includes the following items of cost shown in the Statement of Operations:

Cost of power purchased.....	\$ 12,922,870
Operation, maintenance, and administrative expenses.....	53,830,068
Interest.....	64,583,199
Depreciation.....	15,126,023
Sinking fund provision.....	17,012,676
Interchange of power with Northern Ontario Properties (877,316 megawatt-hours).....	3,247,989
Sale of secondary energy, other than 60-cycle export.....	631,646
	\$159,595,201

Except for minor refinements and variations, the method used to allocate the cost of power supplied to each customer in 1960 was followed in 1961.



## SYSTEM

## of the Cost of Primary Power

Ended December 31, 1961

primary power					Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged
Credit resulting from matured sinking fund	Sale of 60-cycle secondary export energy	Total cost of primary power	Net income from rural direct customers	Net cost of primary power		
\$	\$	\$	\$	\$	\$	\$
2,872,506	.....	123,304,049	.....	123,304,049	126,031,436.45	2,727,387.45
.....	.....	21,477,728	489,426	20,988,302	20,988,302.00	.....
301,155	.....	9,669,614	.....	9,669,614	9,669,614.00	.....
.....	.....	13,607,087	490,533	14,097,620	14,097,620.00	.....
.....	.....	111,574	1,107	110,467	110,467.00	.....
.....	2,342,098	.....	.....	.....	.....	.....
3,173,761	2,342,098	168,170,052	.....	168,170,052	170,897,439.45	2,727,387.45

2. Frequency standardization costs are shown in the Statement of Operations as follows:

Interest.....	\$ 7,242,368
Portion of cost written off.....	9,683,567
	<u>\$ 16,925,935</u>

This represents a charge to all customers in the Niagara Division (except those which are not being supplied at 60 cycles) at the rate of \$5 per kilowatt on the average monthly peak load supplied amounting to \$14,638,880 plus an amount equal to the net revenue on the export of 60-cycle secondary energy amounting to \$2,287,055.

3. The net withdrawal from the stabilization of rates and contingencies reserve totalling \$2,835,225 consists of a withdrawal from the reserve of \$3,500,000 (applied to reduce the costs of all customers in proportion to their average monthly peak loads) less a provision equal to the net income from the municipal direct customers (\$664,775), to be retained for the future benefit of these customers as a group.

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Acton.....	395,673.94	28,131.64	.....	423,805.58
Ailsa Craig.....	56,337.96	212.91	.....	56,125.05
Ajax.....	101,286.66	28,805.47	.....	130,092.13
Alexandria.....	147,754.29	14,784.81	.....	162,539.10
Alfred.....	8,181.67	2,432.27	.....	10,613.94
Alliston.....	143,564.23	15,011.69	.....	158,575.92
Almonte.....	58,588.95	9,795.56	.....	68,384.51
Alvinston.....	55,100.80	3,311.03	.....	58,411.83
Amherstburg.....	311,193.56	24,802.69	.....	335,996.25
Ancaster Twp.....	129,737.69	15,397.51	.....	145,135.20
Apple Hill.....	13,435.62	900.95	.....	14,336.57
Arkona.....	32,217.90	2,829.72	.....	35,047.62
Arnprior.....	220,255.01	26,591.20	.....	246,846.21
Arthur.....	83,720.83	6,457.43	.....	90,178.26
Athens.....	35,124.15	3,215.97	.....	38,340.12
Aurora.....	190,173.93	30,737.96	.....	220,911.89
Avonmore.....	4,543.00	897.72	.....	5,440.72
Aylmer.....	289,821.32	25,393.27	993.55	316,208.14
Ayr.....	73,113.74	3,946.74	.....	77,060.48
Baden.....	120,688.85	3,656.90	.....	124,345.75
Bancroft.....	36,148.53	7,904.94	.....	44,053.47
Barrie.....	999,548.07	101,809.53	.....	1,101,357.60
Barry's Bay.....	12,897.89	2,372.92	.....	15,270.81
Bath.....	18,230.12	2,143.20	.....	20,373.32
Beachburg.....	.....	1,414.00	.....	1,414.00
Beachville.....	202,390.32	12,038.74	.....	214,429.06
Beamsville.....	88,335.63	9,537.43	.....	97,873.06
Beaverton.....	95,895.96	5,118.73	.....	101,014.69
Beeton.....	60,638.77	4,361.48	.....	65,000.25
Belle River.....	64,343.84	5,632.75	.....	69,976.59
Belleville.....	1,324,265.14	141,940.61	.....	1,466,205.75
Blenheim.....	175,397.25	9,046.51	.....	184,443.76
Bloomfield.....	37,955.14	3,225.21	.....	41,180.35
Blyth.....	57,067.86	5,184.71	.....	62,252.57
Bobcaygeon.....	29,783.29	4,618.33	.....	34,401.62
Bolton.....	84,705.57	4,745.14	.....	89,450.71
Bothwell.....	64,913.34	326.25	.....	65,239.59
Bowmanville.....	483,425.82	44,148.03	.....	527,573.85
Bracebridge.....	2,030.07	369.20	.....	2,399.27
Bradford.....	113,984.12	12,345.36	.....	126,329.48
Braesidø.....	26,029.09	7,387.16	.....	33,416.25
Brampton.....	854,675.86	72,381.27	.....	927,057.13
Brantford.....	4,733,736.86	278,712.02	.....	5,012,448.88
Brantford Twp.....	232,969.85	33,404.79	.....	266,374.64
Brechin.....	23,608.87	573.48	.....	23,035.39

# SOUTHERN ONTARIO SYSTEM

## STATEMENT OF SINKING FUND EQUITY

as at December 31, 1961

(continued)

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Bridgeport.....	52,266.42	5,587.66	.....	57,854.08
Brigden.....	43,937.62	1,524.79	.....	45,462.41
Brighton.....	97,029.59	9,883.18	.....	106,912.77
Brockville.....	1,138,976.52	88,164.18	.....	1,227,140.70
Brussels.....	67,843.62	5,571.74	.....	73,415.36
Burford.....	72,853.45	4,669.71	.....	77,523.16
Burgessville.....	23,517.64	1,328.92	.....	24,846.56
Burk's Falls.....	18,613.83	4,114.55	.....	22,728.38
Burlington.....	724,792.89	154,981.72	.....	879,774.61
Caledonia.....	107,022.74	6,629.59	.....	113,652.33
Campbellford.....	3,760.02	3,451.40	.....	7,211.42
Campbellville.....	15,311.18	1,261.55	.....	16,572.73
Cannington.....	69,553.82	2,530.56	.....	72,084.38
Cardinal.....	64,190.33	6,538.61	.....	70,728.94
Carleton Place.....	389,624.64	30,250.99	.....	419,875.63
Casselman.....	17,828.67	4,068.15	.....	21,896.82
Cayuga.....	48,062.83	3,871.51	.....	51,934.34
Chalk River.....	12,598.42	2,526.94	.....	15,125.36
Chatham.....	1,970,103.20	109,904.19	.....	2,080,007.39
Chatsworth.....	26,933.91	1,690.73	.....	28,624.64
Chesley.....	162,215.99	11,314.04	.....	173,530.03
Chesterville.....	121,471.61	7,608.42	.....	129,080.03
Chippawa.....	89,103.21	7,870.13	.....	96,973.34
Clifford.....	38,829.79	3,160.19	.....	41,989.98
Clinton.....	226,988.51	13,841.97	.....	240,830.48
Cobden.....	31,010.49	3,822.42	.....	34,832.91
Cobourg.....	530,495.36	59,093.81	.....	589,589.17
Colborne.....	52,929.66	6,247.19	.....	59,176.85
Coldwater.....	56,980.31	3,524.28	.....	60,504.59
Collingwood.....	619,224.21	36,270.89	.....	655,495.10
Comber.....	64,980.16	653.37	.....	65,633.53
Cookstown.....	29,897.70	2,532.46	.....	32,430.16
Cottam.....	25,082.95	2,070.32	.....	27,153.27
Courtright.....	23,952.25	1,679.09	.....	25,631.34
Creemore.....	52,348.88	2,853.97	.....	55,202.85
Dashwood.....	38,345.08	2,081.62	.....	40,426.70
Deep River.....	38,887.05	16,050.48	.....	54,937.53
Delaware.....	21,042.25	1,393.14	.....	22,435.39
Delhi.....	121,331.69	14,874.27	.....	136,205.96
Deseronto.....	67,137.24	7,342.49	.....	74,479.73
Dorchester.....	36,999.48	2,565.62	.....	39,565.10
Drayton.....	52,759.31	2,897.64	.....	55,656.95
Dresden.....	151,853.46	7,798.68	.....	159,652.14
Drumbo.....	30,949.29	1,685.46	.....	32,634.75
Dublin.....	24,098.89	1,600.65	.....	25,699.54

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Duridalk.....	63,352.20	3,654.94	.....	67,007.14
Dundas.....	660,365.98	38,760.46	12,124.40	711,250.84
Dunnville.....	350,240.16	25,937.24	.....	376,177.40
Durham.....	145,100.31	9,234.19	.....	154,334.50
Dutton.....	76,352.84	2,376.24	.....	78,729.08
East York Twp.....	2,388,971.00	236,110.84	.....	2,625,081.84
Eganville.....	12,127.10	3,176.08	.....	15,303.18
Elmira.....	371,355.25	24,048.82	.....	395,404.07
Elmvale.....	63,006.21	3,213.10	.....	66,219.31
Elmwood.....	22,113.36	1,656.38	.....	23,769.74
Elora.....	146,169.91	4,715.11	.....	150,885.02
Embro.....	48,002.00	1,881.79	.....	49,883.79
Erieau.....	41,775.36	3,365.01	.....	45,140.37
Erie Beach.....	7,548.87	567.95	.....	8,116.82
Erin.....	18,714.44	3,308.58	.....	22,023.02
Essex.....	166,668.99	12,228.07	.....	178,897.06
Etobicoke Twp.....	3,878,348.64	636,911.62	.....	4,515,260.26
Exeter.....	223,406.93	16,246.86	.....	239,653.79
Fergus.....	346,489.39	24,142.88	.....	370,632.27
Finch.....	25,319.66	2,233.79	.....	27,553.45
Flesherton.....	31,521.58	1,929.07	.....	33,450.65
Fonthill.....	64,578.88	7,511.16	.....	72,090.04
Forest.....	170,611.05	11,706.84	.....	182,317.89
Forest Hill.....	1,171,386.66	101,855.47	.....	1,273,242.13
Frankford.....	23,686.75	3,918.47	.....	27,605.22
Galt.....	2,537,179.52	142,617.61	9,922.36	2,689,719.49
Georgetown.....	556,008.96	41,288.93	.....	597,297.89
Glencoe.....	83,834.38	4,854.22	.....	88,688.60
Goderich.....	569,243.28	36,316.97	.....	605,560.25
Grand Bend.....	46,021.75	5,756.10	.....	51,777.85
Grand Valley.....	58,037.99	4,550.30	.....	62,588.29
Granton.....	27,681.37	842.05	.....	28,523.42
Gravenhurst.....	219,990.68	17,125.53	.....	237,116.21
Grimsby.....	135,757.63	17,335.31	.....	153,092.94
Guelph.....	3,054,783.25	187,171.58	.....	3,241,954.83
Hagersville.....	297,021.43	10,755.17	.....	307,776.60
Hamilton.....	27,939,469.48	2,243,780.44	.....	30,183,249.92
Hanover.....	386,940.26	30,333.34	.....	417,273.60
Harriston.....	158,720.35	8,452.94	.....	167,173.29
Harrow.....	145,914.06	11,373.48	.....	157,287.54
Hastings.....	31,293.23	3,187.73	.....	34,480.96
Havelock.....	56,803.75	4,726.15	.....	61,529.90
Hawkesbury.....	60,587.96	14,451.52	.....	75,039.48
Hensall.....	82,219.06	5,820.04	.....	88,039.10
Hespeler.....	599,466.64	38,999.82	.....	638,466.46



# SOUTHERN ONTARIO SYSTEM

## STATEMENT OF SINKING FUND EQUITY

as at December 31, 1961

(continued)

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Highgate.....	36,739.75	1,658.35	.....	38,398.10
Holstein.....	12,060.70	978.50	.....	13,039.20
Huntsville.....	312,572.60	23,299.90	.....	335,872.50
Ingersoll.....	768,487.91	35,575.96	.....	802,063.87
Iroquois.....	43,677.90	4,983.12	47.30	48,708.32
Jarvis.....	60,534.45	4,039.38	.....	64,573.83
Kemptville.....	126,331.45	12,717.26	.....	139,048.71
Killaloe Station.....	.....	1,295.00	8,304.44	9,599.44
Kincardine.....	230,222.03	20,089.27	.....	250,311.30
Kingston.....	2,078,507.48	242,618.30	.....	2,321,125.78
Kingsville.....	198,066.06	14,161.87	.....	212,227.93
Kirkfield.....	13,000.47	597.42	.....	13,597.89
Kitchener.....	6,243,516.05	384,218.27	.....	6,627,734.32
Lakefield.....	99,131.20	9,525.25	.....	108,656.45
Lambeth.....	62,184.30	5,537.50	.....	67,721.80
Lanark.....	32,402.63	2,812.11	.....	35,214.74
Lancaster.....	26,373.30	2,240.73	.....	28,614.03
Leamington.....	528,004.94	46,022.79	.....	574,027.73
Lindsay.....	685,840.02	66,858.60	5,010.90	757,709.52
Listowel.....	373,008.72	20,730.92	.....	393,739.64
London.....	9,843,587.98	561,944.20	400,246.16	10,805,778.34
Long Branch.....	371,572.30	42,133.89	.....	413,706.19
L'Orignal.....	9,364.86	1,943.59	.....	11,308.45
Lucan.....	78,460.43	1,119.04	.....	79,579.47
Lucknow.....	96,691.61	7,265.61	.....	103,957.22
Lynden.....	47,299.74	343.94	.....	47,643.68
Madoc.....	66,439.93	6,800.60	.....	73,240.53
Magnetawan.....	3,439.79	583.59	.....	4,023.38
Markdale.....	57,570.72	5,475.55	.....	63,046.27
Markham.....	140,414.24	17,021.29	.....	157,435.53
Marmora.....	47,552.23	5,158.09	.....	52,710.32
Martintown.....	12,301.44	1,163.47	.....	13,469.91
Maxville.....	45,851.45	3,936.84	.....	49,788.29
Meaford.....	212,569.57	21,724.78	.....	234,294.35
Merlin.....	44,312.44	3,083.50	.....	47,395.94
Mer ickville.....	17,249.66	2,642.99	.....	19,892.65
Midland.....	904,714.89	56,437.12	.....	961,152.01
Mildmay.....	34,051.43	3,430.06	.....	37,481.49
Millbrook.....	24,590.51	3,121.62	.....	27,712.13
Milton.....	446,051.59	20,356.60	.....	466,408.19
Milverton.....	159,490.54	5,826.27	.....	165,316.81
Mimico.....	716,402.27	55,754.38	.....	772,156.65
Mitchell.....	201,212.12	11,912.63	.....	213,124.75
Moorefield.....	26,615.06	1,731.66	.....	28,346.72
Morrisburg.....	69,651.24	8,279.05	.....	77,930.29

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Mount Brydges.....	35,714.48	2,075.80	.....	37,790.28
Mount Forest.....	174,400.32	11,374.94	.....	185,775.26
Napanee.....	293,449.25	27,320.97	.....	320,770.22
Neustadt.....	28,037.41	2,152.54	.....	30,189.95
Newboro.....	3,850.24	589.01	.....	4,439.25
Newburgh.....	9,871.65	1,563.87	.....	11,435.52
Newbury.....	18,106.13	1,103.21	.....	19,209.34
Newcastle.....	46,878.63	5,524.15	.....	52,402.78
New Hamburg.....	194,017.35	8,607.01	.....	202,624.36
Newmarket.....	252,731.05	37,586.59	71.71	290,389.35
New Toronto.....	2,351,959.37	149,839.86	.....	2,501,799.23
Niagara.....	174,420.37	11,079.69	.....	185,500.06
Niagara Falls.....	2,287,578.56	100,726.55	.....	2,388,305.11
North York Twp.....	5,068,991.22	896,124.14	.....	5,965,115.36
Norwich.....	142,752.16	3,890.17	.....	146,642.33
Norwood.....	44,627.63	4,516.11	.....	49,143.74
Oakville.....	756,380.88	175,590.24	.....	931,971.12
Oil Springs.....	78,493.52	2,553.89	.....	81,047.41
Omeme.....	26,793.58	2,901.74	.....	29,695.32
Orangeville.....	256,618.50	25,676.91	.....	282,295.41
Orillia.....	127,516.70	28,163.67	.....	155,680.37
Orono.....	23,178.48	3,192.14	.....	26,370.62
Oshawa.....	4,041,545.48	428,281.82	.....	4,469,827.30
Ottawa.....	5,659,937.54	882,694.49	.....	6,542,632.03
Otterville.....	41,250.80	2,750.64	.....	44,001.44
Owen Sound.....	1,217,400.02	73,981.14	.....	1,291,381.16
Paisley.....	52,078.67	4,017.15	.....	56,095.82
Palmerston.....	176,536.94	8,417.47	.....	184,954.41
Paris.....	466,883.09	19,226.05	.....	486,109.14
Parkhill.....	92,128.42	6,839.84	.....	98,968.26
Parry Sound.....	70,642.72	13,636.71	.....	84,279.43
Penetanguishene.....	263,358.44	13,127.36	.....	276,485.80
Perth.....	377,120.62	32,844.82	.....	409,965.44
Peterborough.....	2,646,811.20	260,899.45	.....	2,907,710.65
Petrolia.....	364,535.52	13,452.13	.....	377,987.65
Pickering.....	8,589.73	4,059.59	.....	12,649.32
Pictou.....	327,550.36	29,069.01	.....	356,619.37
Plattsville.....	52,082.04	3,901.61	.....	55,983.65
Point Edward.....	375,345.66	28,354.93	.....	403,700.59
Port Burwell.....	19,491.46	1,860.86	.....	21,352.32
Port Colborne.....	600,960.67	48,672.42	.....	649,633.09
Port Credit.....	397,700.72	66,731.05	.....	464,431.77
Port Dover.....	159,368.11	15,249.72	636.89	175,254.72
Port Elgin.....	108,977.05	10,120.08	.....	119,097.13
Port Hope.....	553,173.47	52,664.94	.....	605,838.41

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Port McNicoll.....	67,356.88	6,506.00	.....	73,862.88
Port Perry.....	104,350.80	10,163.03	.....	114,513.83
Port Rowan.....	34,307.03	2,595.28	.....	36,902.31
Port Stanley.....	174,565.96	6,520.33	.....	181,086.29
Prescott.....	288,060.27	22,798.84	.....	310,859.11
Preston.....	1,069,114.16	47,014.46	.....	1,116,128.62
Priceville.....	4,773.69	389.11	.....	5,162.80
Princeton.....	40,229.59	2,003.40	.....	42,232.99
Queenston.....	33,258.76	2,551.29	.....	35,810.05
Renfrew.....	147,182.76	23,879.31	.....	171,062.07
Richmond.....	26,609.50	3,539.38	.....	30,148.88
Richmond Hill.....	281,260.38	51,522.42	.....	332,782.80
Ridgetown.....	179,453.26	8,429.62	.....	187,882.88
Ripley.....	37,720.95	2,960.37	.....	40,681.32
Riverside.....	472,101.46	45,432.06	.....	517,533.52
Rockland.....	21,923.09	5,090.92	.....	27,014.01
Rockwood.....	49,042.88	2,289.90	.....	51,332.78
Rodney.....	61,027.37	3,931.33	.....	64,958.70
Rosseau.....	15,981.82	1,116.27	.....	17,098.09
Russell.....	26,872.15	2,309.89	.....	29,182.04
St. Catharines.....	5,595,027.74	521,105.11	238,922.82	6,355,055.67
St. Clair Beach.....	40,174.89	4,129.00	.....	44,303.89
St. George.....	58,031.90	2,397.97	.....	60,429.87
St. Jacobs.....	73,554.80	4,070.07	.....	77,624.87
St. Mary's.....	577,339.49	44,881.49	.....	622,220.98
St. Thomas.....	1,939,613.88	91,487.72	22,491.93	2,053,593.53
Sandwich East Twp.....	225,545.30	34,436.82	.....	259,982.12
Sandwich West Twp.....	408,237.17	63,792.49	.....	472,029.66
Sarnia.....	4,187,056.92	728,326.32	.....	4,915,383.24
Scarborough Twp.....	4,090,016.69	707,801.28	.....	4,797,817.97
Seaforth.....	225,668.83	5,652.64	.....	231,321.47
Shelburne.....	96,297.03	7,807.83	.....	104,104.86
Simcoe.....	603,547.03	49,042.74	92.81	652,682.58
Smith's Falls.....	595,925.41	52,329.02	.....	648,254.43
Smithville.....	37,202.09	3,999.08	.....	41,201.17
Southampton.....	103,682.29	9,566.29	.....	113,248.58
Springfield.....	34,019.30	1,724.81	.....	35,744.11
Stamford Twp.....	813,431.32	89,621.02	.....	903,052.34
Stayner.....	86,715.83	5,795.49	.....	92,511.32
Stirling.....	63,486.06	6,277.44	.....	69,763.50
Stoney Creek.....	108,712.98	19,321.52	.....	128,034.50
Stouffville.....	122,832.22	13,610.29	.....	136,442.51
Stratford.....	2,211,987.31	105,521.67	.....	2,317,508.98
Strathroy.....	387,695.19	19,357.15	.....	407,052.34
Streetsville.....	105,630.08	16,783.20	.....	122,413.28

**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**  
**(continued)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Sunderland.....	42,875.16	969.64	.....	43,844.80
Sundridge.....	11,198.13	2,340.93	.....	13,539.06
Sutton.....	100,553.88	8,865.16	.....	109,419.04
Swansea.....	524,671.65	45,716.87	.....	570,388.52
Tara.....	40,555.83	3,613.46	.....	44,169.29
Tavistock.....	174,704.53	6,288.94	.....	180,993.47
Tecumseh.....	138,652.38	11,201.10	.....	149,853.48
Teeswater.....	62,026.07	5,635.13	.....	67,661.20
Thamesford.....	74,382.98	3,875.63	.....	78,258.61
Thamesville.....	81,791.33	4,597.11	.....	86,388.44
Thedford.....	47,583.18	4,032.33	.....	51,615.51
Thornbury.....	27,598.53	5,028.94	.....	32,627.47
Thornedale.....	33,856.49	745.61	.....	34,602.10
Thornton.....	14,360.86	1,060.20	.....	15,421.06
Thorold.....	719,936.87	77,888.47	.....	797,825.34
Tilbury.....	234,887.33	11,821.08	.....	246,708.41
Tillsonburg.....	411,647.88	26,670.11	.....	438,317.99
Toronto.....	78,668,476.20	4,563,258.90	.....	83,231,735.10
Toronto Twp.....	1,825,574.30	290,743.01	.....	2,116,317.31
Tottenham.....	47,501.03	3,662.63	.....	51,163.66
Trenton.....	841,771.13	96,211.85	.....	937,982.98
Tweed.....	79,213.97	7,964.56	.....	87,178.53
Uxbridge.....	120,374.22	12,410.97	.....	132,785.19
Vankleek Hill.....	14,659.41	3,125.38	.....	17,784.79
Victoria Harbour.....	30,832.58	2,060.80	.....	32,893.38
Walkerton.....	186,356.68	19,049.27	.....	205,405.95
Wallaceburg.....	1,016,242.24	53,876.36	.....	1,070,118.60
Wardsville.....	19,271.21	1,580.66	.....	20,851.87
Warkworth.....	23,144.78	2,113.79	.....	25,258.57
Wasaga Beach.....	20,684.65	3,777.39	.....	24,462.04
Waterdown.....	96,605.52	5,174.38	.....	101,779.90
Waterford.....	132,431.72	6,782.95	.....	139,214.67
Waterloo.....	1,338,208.00	92,380.86	.....	1,430,588.86
Watford.....	121,422.09	9,437.46	.....	130,859.55
Waubashene.....	27,037.39	2,115.23	.....	29,152.62
Welland.....	1,594,606.87	118,630.40	175,925.15	1,889,162.42
Wellesley.....	59,928.59	2,263.76	.....	62,192.35
Wellington.....	60,295.16	5,087.81	.....	65,382.97
West Lorne.....	123,883.44	7,361.49	.....	131,244.93
Weston.....	1,058,957.85	59,447.97	.....	1,118,405.82
Westport.....	32,637.25	2,927.49	.....	35,564.74
Wheatley.....	80,696.91	6,910.88	.....	87,607.79
Whitby.....	458,157.91	62,712.32	.....	520,870.23
Wiarton.....	105,059.40	10,132.38	.....	115,191.78
Williamsburg.....	27,889.90	1,844.42	.....	29,734.32



**SOUTHERN ONTARIO SYSTEM**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**  
**(concluded)**

Municipality	Net amount paid as part of cost of power by each municipality together with proportionate share of other sinking funds provided out of revenues of the system and interest allowed			
	Balance at January 1, 1961	Net provision and interest credited during year	Sinking fund equity acquired through annexation	Balance at December 31, 1961
	\$	\$	\$	\$
Winchester.....	105,689.36	7,730.00	.....	113,419.36
Windermere.....	14,377.43	1,154.10	.....	15,531.53
Windsor.....	12,500,183.52	604,270.83	.....	13,104,454.35
Wingham.....	210,772.00	18,733.97	.....	229,505.97
Woodbridge.....	195,035.92	12,561.78	.....	207,597.70
Woodstock.....	1,876,068.50	113,270.34	.....	1,989,338.84
Woodville.....	34,356.40	534.43	.....	33,821.97
Wyoming.....	40,823.79	2,742.45	.....	43,566.24
York Twp.....	4,612,909.33	407,534.73	.....	5,020,444.06
Zurich.....	55,240.66	3,177.62	.....	58,418.28
Total—Municipalities.....	260,134,657.18	20,670,377.39	874,790.42	281,679,824.99
Rural Power District.....	47,644,237.89	6,853,143.52	874,790.42	53,622,640.99
Administrative and service buildings and equipment.....	3,945,420.92	359,420.00	.....	4,304,840.92
GRAND TOTAL.....	311,724,365.99	27,882,940.91 (see note)	.....	339,607,306.90

NOTE: The net provision and interest credited during the year consist of the following amounts shown in the Statement of Sinking Fund Reserve:

Interest.....	\$12,468,974.64
Provision—direct.....	18,380,260.00
—indirect.....	264,736.00
	\$31,113,970.64
Less credits resulting from matured sinking funds.....	3,231,029.73
	<u>\$27,882,940.91</u>

NORTHERN ONTARIO

FIXED

Statement Showing Changes during

Property	In		
	Balance January 1, 1961	Changes	
		Placed in service	Transferred to "Under construction" (Note)
	\$	\$	\$
<b>Power System</b>			
<b>HYDRO-ELECTRIC GENERATING STATIONS</b>			
<b>NORTHEASTERN DIVISION</b>			
Abitibi River			
Abitibi Canyon.....	21,024,383	163,209	.....
Otter Rapids.....	138,231	28,117,623	.....
Mattagami River			
Little Long.....	.....	.....	.....
Mississagi River			
George W. Rayner.....	18,535,810	43,251	3,366
Red Rock Falls.....	8,648,568	8,050,958	.....
Other properties.....	25,139,323	210,629	2,536,530
	73,486,315	36,585,670	2,539,896
<b>NORTHWESTERN DIVISION</b>			
Nipigon River			
Pine Portage.....	31,963,636	15,782	.....
Cameron Falls.....	15,482,795	104,226	.....
Alexander.....	11,869,666	3,034	.....
Aguasabon River			
Aguasabon.....	12,681,959	6,736	.....
English River			
Caribou Falls.....	23,698,174	19,484	.....
Manitou Falls.....	15,502,015	17,041	.....
Winnipeg River			
Whitedog Falls.....	21,236,857	10,556	.....
Kaministiquia River			
Silver Falls.....	16,270,836	10,581	.....
Other properties.....	11,365,946	42,808	517,753
	160,071,884	209,086	517,753
<b>THERMAL-ELECTRIC GENERATING STATIONS</b>			
<b>NORTHEASTERN DIVISION</b>			
Diesel-electric.....	387,078	1,023	.....
<b>NORTHWESTERN DIVISION</b>			
Thunder Bay.....	.....	.....	.....
	387,078	1,023	.....
Total generating stations.....	233,945,277	36,795,779	3,057,649
<b>TRANSFORMER STATIONS</b>			
Northeastern Division.....	25,319,969	468,616	.....
Northwestern Division.....	10,500,570	145,078	.....
Total transformer stations.....	35,820,539	613,694	.....
<b>TRANSMISSION LINES</b>			
Northeastern Division.....	33,972,007	467,519	.....
Northwestern Division.....	31,173,250	286,406	51,223
Total transmission lines.....	65,145,257	753,925	51,223

## PROPERTIES

## ASSETS

Year 1961 and Balances at December 31, 1961

service		Balance December 31, 1961	Under construction December 31, 1961	Total fixed assets December 31, 1961	Expenditures during 1961
during year					
Equipment relocated and reclassified	Sales and retirements				
\$	\$	\$	\$	\$	\$
63,290	4,430	21,119,872	43,545	21,163,417	56,423
35,907	.....	28,291,761	461,132	28,752,893	8,107,111
.....	.....	.....	21,188,901	21,188,901	14,544,338
.....	4,142	18,571,553	4,222	18,575,775	2,960
.....	50	16,699,476	131,621	16,831,097	423,190
27,383	229,913	22,610,892	2,392,254	25,003,146	377,613
.....	238,535	107,293,554	24,221,675	131,515,229	23,511,635
266	3,983	31,975,169	7,879	31,983,048	18,696
.....	2,325	15,584,696	13,885	15,598,581	90,734
.....	18,969	11,853,731	.....	11,853,731	22,993
.....	1,436	12,687,259	98,636	12,785,895	103,937
.....	.....	23,717,658	219,646	23,937,304	81,797
.....	8,717	15,510,339	.....	15,510,339	17,041
.....	.....	21,247,413	167,793	21,415,206	21,039
313,216	.....	15,947,039	52,676	15,999,715	26,960
313,646	7,690	11,196,957	636,259	11,833,216	97,742
164	43,120	159,720,261	1,196,774	160,917,035	434,953
.....	.....	388,101	628	388,729	2,878
.....	.....	.....	24,020,439	24,020,439	6,239,106
.....	.....	388,101	24,021,067	24,409,168	6,236,228
164	281,655	267,401,916	49,439,516	316,841,432	30,182,816
28,663	218,095	25,599,153	363,826	25,962,979	597,533
2,488	176,209	10,471,927	164,558	10,636,485	162,758
31,151	394,304	36,071,080	528,384	36,599,464	760,291
71,059	85,832	34,424,753	3,465,234	37,889,987	2,625,691
1,444	52,726	31,357,151	765,704	32,122,855	574,031
72,503	138,558	65,781,904	4,230,938	70,012,842	3,199,722

NORTHERN ONTARIO

FIXED

Statement Showing Changes during

Property	In		
	Balance January 1, 1961	Changes	
		Placed in service	Transferred to "Under construction" (Note)
	\$	\$	\$
<b>Power System—(continued)</b>			
COMMUNICATIONS .....	3,918,223	88,072	.....
Total power system .....	338,829,296	38,251,470	3,108,872
<b>Administrative and Service Land, Buildings and Equipment</b>			
LAND AND BUILDINGS .....	2,500,619	75,601	1,853
OFFICE AND SERVICE EQUIPMENT .....	786,402	70,416	.....
Total administrative and service land, buildings and equipment .....	3,287,021	146,017	1,853
<b>Retail Distribution</b>			
RURAL POWER DISTRICT .....	39,969,125	2,362,451	.....
<b>LOCAL SYSTEMS</b>			
Northeastern Division .....	4,123,082	516,487	.....
Northwestern Division .....	660,782	65,995	.....
Total local systems .....	4,783,864	582,482	.....
Total retail distribution .....	44,752,989	2,944,933	.....
TOTAL FIXED ASSETS .....	386,869,306	41,342,420	3,110,725

Changes in Assets under Construction during 1961

Under construction at January 1, 1961 .....	\$ 55,598,650
Add:	
Transfer from "in service" at January 1, 1961 (Note) .....	3,110,725
Expenditures during 1961 .....	37,374,239
	\$ 96,083,614
Deduct:	
Placed in service during 1961 .....	41,342,420
Under construction at December 31, 1961 .....	\$ 54,741,194



## PROPERTIES

## ASSETS

## Year 1961 and Balances at December 31, 1961

service					
during year					
Equipment relocated and reclassified	Sales and retirements	Balance December 31, 1961	Under construction December 31, 1961	Total fixed assets December 31, 1961	Expenditures during 1961
\$	\$	\$	\$	\$	\$
33,052	30,316	3,942,927	160,008	4,102,935	158,190
70,766	844,833	373,197,827	54,358,846	427,556,673	34,301,019
.....	3,365	2,571,002	32,271	2,603,273	40,767
.....	44,249	812,569	.....	812,569	70,416
.....	47,614	3,383,571	32,271	3,415,842	111,183
76,238	393,062	41,862,276	295,096	42,157,372	2,449,518
2,087	51,415	4,585,067	49,570	4,635,637	459,873
7,559	5,895	728,441	5,411	733,852	52,646
5,472	57,310	5,314,508	54,981	5,369,489	512,519
70,766	450,372	47,176,784	350,077	47,526,861	2,962,037
.....	1,342,819	423,758,182	54,741,194	478,499,376	37,374,239

## Summary of Sales and Retirements during 1961

Charged to accumulated depreciation .....	\$ 1,061,511
Charged to construction in progress .....	5,053
Charged to operations .....	699
Proceeds from sales .....	275,556
	<u>\$ 1,342,819</u>

## NOTE:

The costs of lands acquired and engineering surveys undertaken for proposed projects have in prior years been classified as "in service" when incurred. The total of these costs in respect of plant not yet in service—\$3,110,725 at January 1, 1961—was transferred on that date to assets under construction.

## NORTHERN ONTARIO

## Accumulated Depreciation, December 31, 1961

	Power System	Rural Power District	Administrative and service buildings and equipment	Total
Balances at January 1, 1961...	\$ 41,106,420	\$ 8,097,864	\$ 732,293	\$ 49,936,577
Add:				
Interest at 3% per annum on accumulated depreciation on plant not fully depreciated.....	1,152,347	239,799	10,575	1,402,721
Provision in the year				
—direct.....	3,122,257	1,175,715	.....	4,297,972
—indirect.....	241	.....	92,270	92,511
Transfer from reserve for stabilization of rates and contingencies (Note 1).....	782,236	.....	.....	782,236
Adjustments re transfer of equipment.....	7,560	7,560	.....	.....
Other adjustments.....	20,877	3,573	74	24,524
	46,191,938	9,509,391	835,212	56,536,541
Deduct:				
Cost of fixed assets retired less proceeds from sales...	646,548	379,237	35,726	1,061,511
Excess or deficiency of removal costs over salvage recoveries on assets retired	87,709	35,835	.....	51,874
	734,257	343,402	35,726	1,113,385
Balances at December 31, 1961	45,457,681	9,165,989	799,486	55,423,156

## NOTES:

1. The transfer of \$782,236 represents an appropriation to eliminate a deficiency arising from losses on premature retirements of Power System facilities and from net removal costs incurred in recent years.
2. As in the Southern Ontario System, studies of retirement experience for certain classes of assets in the Northern Ontario Properties were completed during the year. The indicated revisions in estimated service lives were made without significant effect on the accounts.

## Frequency Standardization Account, December 31, 1961

Balance at January 1, 1961.....	\$ 3,445,863
Expenditures for frequency standardization work completed during year.....	14,526
	\$ 3,460,389
Less portion of cost charged to cost of power for the year.....	123,506
Balance at December 31, 1961.....	\$ 3,336,883

## Exchange Discount (Net) on Funded Debt, December 31, 1961

	Discount	Premium	Net discount
	\$	\$	\$
Exchange discount and premium on funded debt issued in United States funds:			
Balances at December 31, 1961—No changes during year.....	771,656	176,489	535,167

## PROPERTIES

## Reserve for Stabilization of Rates and Contingencies, December 31, 1961

	Power System	Rural Power District	Sub-total	Portion of reserve earmarked for special purposes		Total
				Cost- contract municipi- palities in the former Thunder Bay System	Nuclear research	
Balances at January 1, 1961 . . .	\$ 17,104,014	\$ 333,149	\$ 17,437,163	\$ 1,728,587	\$ 158,152	\$ 19,323,902
Add:						
Interest for year on reserve balances (Note 1) . . . . .	584,017	11,375	595,392	59,023	4,350	658,765
Provision in the year . . . . .	898,858		898,858			898,858
Profit on redemption of funded debt . . . . .	128,619		128,619			128,619
	18,715,508	344,524	19,060,032	1,787,610	162,502	21,010,144
Deduct:						
Expenditures during year . . . . .					131,886	131,886
Withdrawals in the year ap- plied in reduction of cost of power . . . . .		344,524	344,524	625,692		970,216
Transfer to accumulated de- preciation (Note 2) . . . . .	782,236		782,236			782,236
Transfer to accounts pay- able . . . . .					30,616	30,616
	782,236	344,524	1,126,760	625,692	162,502	1,914,954
Balances at December 31, 1961 . . . . .	17,933,272		17,933,272	1,161,918		19,095,190

NOTE 1: Interest was calculated at a rate approximating the actual earnings on the investments held for the reserves \*

NOTE 2: The transfer of \$782,236 represents an appropriation to eliminate a deficiency in accumulated depreciation arising from losses on premature retirements of Power System facilities and from net removal costs incurred in recent years.

## Sinking Fund Reserve, December 31, 1961

	Province of Ontario			Municipali- ties supplied with power at cost	Total
	40-year basis	Prepaid sinking funds	Total	40-year basis	
Balances at January 1, 1961 . . . . .	\$ 41,928,940	\$ 12,741,037	\$ 54,669,977	\$ 14,330,759	\$ 69,000,736
Add:					
Interest at 4% per annum on reserve balances . . . . .	1,677,158	509,641	2,186,799	573,230	2,760,029
Provision in the year:					
—direct . . . . .	3,285,292		3,285,292	656,464	3,941,756
—indirect . . . . .	27,419		27,419		27,419
	46,918,809	13,250,678	60,169,487	15,560,453	75,729,940
Deduct credits resulting from pre- paid and matured sinking funds (Note):					
Interest . . . . .	19,722	509,641	529,363		529,363
Principal . . . . .	5,192	192,565	197,757		197,757
	24,914	702,206	727,120		727,120
Balances at December 31, 1961 . . . . .	46,893,895	12,548,472	59,442,367	15,560,453	75,002,820

NOTE: The matured sinking funds at January 1, 1961 amounted to \$493,052.

NORTHERN ONTARIO

STATEMENT OF THE ALLOCATION  
for the Year

Municipalities supplied with power at cost	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of		
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	Frequency standardi- zation	Credit resulting from prepaid and matured sinking funds
	kw	megawatt- hours	\$	\$	\$
Atikokan.....	3,433.0	19,085.4	153,343	.....	.....
Cache Bay.....	522.1	1,475.2	19,425	.....	.....
Capreol.....	1,733.4	9,138.2	72,848	.....	.....
Cochrane.....	2,660.6	13,688.2	90,037	.....	.....
Coniston.....	1,026.1	5,374.1	39,219	.....	.....
Dryden.....	2,511.8	14,736.5	112,106	.....	.....
Espanola.....	2,407.0	11,636.9	89,188	.....	.....
Fort William.....	33,100.1	211,104.0	1,334,439	.....	.....
Kapuskasing.....	3,817.5	17,586.5	138,312	.....	.....
Larder Lake Twp.....	902.7	4,470.4	40,405	.....	.....
Latchford.....	229.1	938.0	9,464	.....	.....
Massey.....	455.8	2,375.0	21,520	.....	.....
McGarry.....	936.2	4,465.2	37,962	.....	.....
Nipigon.....	1,555.7	9,115.9	24,584	.....	.....
North Bay.....	14,556.9	80,768.7	561,316	.....	.....
Port Arthur.....	40,166.9	210,488.5	1,529,302	.....	.....
Red Rock.....	844.4	4,261.2	32,926	.....	.....
Schreiber Twp.....	1,189.1	6,472.8	45,319	.....	.....
South River.....	210.5	1,076.8	11,760	.....	.....
Sturgeon Falls.....	2,418.4	11,952.9	96,288	.....	.....
Sudbury.....	37,720.5	214,764.0	1,528,497	.....	.....
Terrace Bay Twp.....	1,355.3	8,176.9	52,682	.....	.....
Thessalon.....	672.4	3,689.5	29,534	.....	.....
Webbwood.....	154.1	664.8	6,387	.....	.....
West Ferris Twp.....	3,710.4	18,915.9	144,064	.....	.....
Total—Municipalities.....	158,290.0	886,471.5	6,260,927	.....	.....



## PROPERTIES

## OF THE COST OF PRIMARY POWER

Ended December 31, 1961

primary power			Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged	Annual rates on a kilowatt basis	
Provision for stabilization of rates and contingencies	Withdrawals from stabilization of rates reserve	Total cost of primary power			Interim	Actual
\$	\$	\$	\$	\$	\$	\$
3,433	.....	156,776	171,647.92	14,871.92	50.00	45.67
522	.....	19,947	20,884.66	937.66	40.00	38.21
1,734	.....	74,582	75,404.00	822.00	43.50	43.03
2,661	.....	92,698	98,443.13	5,745.13	37.00	34.84
1,026	.....	40,245	40,633.56	388.56	39.60	39.22
2,512	.....	114,618	128,102.65	13,484.65	51.00	45.63
2,407	.....	91,595	96,280.00	4,685.00	40.00	38.05
33,100	264,801	1,102,738	1,108,852.79	6,114.79	33.50	33.32
3,817	.....	142,129	137,431.20	4,697.80	36.00	37.23
902	.....	41,307	39,717.71	1,589.29	44.00	45.76
229	.....	9,693	9,850.22	157.22	43.00	42.31
456	.....	21,976	21,990.76	14.76	48.25	48.21
936	.....	38,898	40,257.00	1,359.00	43.00	41.55
1,556	12,446	53,694	53,670.52	23.48	34.50	34.51
14,557	.....	575,873	560,439.38	15,433.62	38.50	39.56
40,167	321,335	1,248,134	1,265,258.15	17,124.15	31.50	31.07
844	6,755	27,015	27,106.07	91.07	32.10	31.99
1,189	9,513	36,995	39,239.75	2,244.75	33.00	31.11
211	.....	11,971	14,109.44	2,138.44	59.24	56.87
2,418	.....	98,706	99,154.40	448.40	41.00	40.81
37,721	.....	1,566,218	1,589,920.14	23,702.14	42.15	41.55
1,355	10,842	43,195	44,724.64	1,529.64	33.00	31.87
672	.....	30,206	31,267.03	1,061.03	46.50	44.92
154	.....	6,541	6,601.41	60.41	42.85	42.45
3,711	.....	147,775	150,829.45	3,054.45	40.65	39.83
158,290	625,692	5,793,525	5,871,815.98	78,290.98	.....	.....

NORTHERN ONTARIO  
Summary of the Allocation  
for the Year

	Primary power and energy supplied during year (principal bases of cost allocation)		Cost of	
	Average of monthly peak loads	Energy	Power purchased, operating costs, and fixed charges	frequency standardiza- tion
	kw	megawatt- hours	\$	\$
Municipalities .....	158,290.0	886,471.5	6,260,927	.....
Province of Ontario:				
Rural Power District .....	70,104.2	378,505.5	7,308,252	28,043
Other Customers .....	670,464.0	4,419,211.1	27,826,275	268,185
Total—Province of Ontario .....	740,568.2	4,797,716.6	35,134,527	296,228
GRAND TOTAL .....	898,858.2	5,684,188.1	41,395,454 (Note 1)	296,228 (Note 2)

NOTES

1. The total of \$41,395,454 shown under the heading “Power Purchased, operating costs and fixed charges” includes the following items of cost shown in the Statement of Operations:

Cost of power purchased .....	\$ 818,661
Operation, maintenance, and administrative expenses .....	15,236,046
Interest .....	15,417,368
Depreciation .....	4,297,972
Sinking fund provision .....	3,941,756
Interchange of power with Southern Ontario System (877,316 megawatt-hours) .....	3,247,989
Sale of secondary energy .....	1,564,338
	<u>\$41,395,454</u>

Except for minor refinements and variations the method used to allocate the cost of power supplied to each customer in 1960 was followed in 1961.

## PROPERTIES

## of the Cost of Primary Power

Ended December 31, 1961

primary power				Amounts billed for primary power (municipalities at interim rates)	Balance credited or charged
Credit resulting from prepaid and matured sinking funds	Provision for stabilization of rates and contingencies	Withdrawals from stabilization of rates reserve	Total cost of primary power		
\$	\$	\$	\$	\$	\$
.....	158,290	625,692	5,793,525	5,871,815.98	78,290.98
.....	70,104	344,524	7,061,875	6,917,036.75	144,838.25
727,120	670,464	.....	28,037,804	28,761,155.42	723,351.42
727,120	740,568	344,524	35,099,679	35,678,192.17	578,513.17
727,120	898,858 (Note 3)	970,216 (Note 4)	40,893,204	41,550,008.15	656,804.15

2. Frequency standardization costs are shown in the Statement of Operation as follows:

Interest .....	\$ 172,722
Portion of cost written off .....	123,506
	<u>\$ 296,228</u>

This represents a charge of 40 cents per kilowatt on the average monthly peak load supplied to all customers served on behalf of the Province of Ontario.

3. The provision for stabilization of rates and contingencies of \$898,858 consists of a charge of \$1.00 per kilowatt on the average monthly peak load supplied to all customers.

4. The withdrawals totalling \$970,216 from the stabilization of rates reserve comprise amounts of:

- (a) \$625,692, calculated at the rate of \$8.00 per kilowatt on the average monthly peak load of cost-contract municipalities formerly served by the Thunder Bay System, and charged to that portion of the reserve held specifically for those municipalities; and
- (b) \$344,524, the balance of the reserve held for the benefit of rural customers.

**NORTHERN ONTARIO PROPERTIES**  
**STATEMENT OF SINKING FUND EQUITY**  
**as at December 31, 1961**

Municipality	Net amount paid as part of cost of power by each municipality, and other sinking funds provided out of revenues of the system and interest allowed		
	Balance at January 1, 1961	Net provision and interest credited during year	Balance at December 31, 1961
	\$	\$	\$
Atikokan Twp.....	83,265.80	22,164.63	105,430.43
Cache Bay.....	2,025.44	1,593.02	3,618.46
Capreol.....	6,349.79	5,925.99	12,275.78
Cochrane.....	7,463.31	7,082.53	14,545.84
Coniston.....	458.00	3,002.32	3,460.32
Dryden.....	76,536.56	16,953.46	93,490.02
Espanola.....	1,544.00	6,875.76	8,419.76
Fort William.....	4,900,691.90	371,397.68	5,272,089.58
Kapuskasing.....	12,301.28	11,030.05	23,331.33
Larder Lake Twp.....	3,507.46	3,307.30	6,814.76
Latchford.....	590.02	755.60	1,345.62
Massey.....	412.00	1,708.48	2,120.48
McGarry.....	3,342.44	3,074.70	6,417.14
Nipigon Twp.....	100,984.45	12,369.38	113,353.83
North Bay.....	50,065.83	44,773.63	94,839.46
Port Arthur.....	8,868,526.68	553,245.06	9,421,771.74
Red Rock.....	38,476.42	5,455.06	43,931.48
Schreiber Twp.....	49,073.91	7,779.96	56,853.87
South River.....	.....	775.00	775.00
Sturgeon Falls.....	8,534.69	7,752.39	16,287.08
Sudbury.....	34,228.00	118,649.12	152,877.12
Terrace Bay Twp.....	77,904.33	9,985.17	87,889.50
Thessalon.....	2,666.39	2,417.66	5,084.05
Webbwood.....	116.00	492.64	608.64
West Ferris Twp.....	1,694.00	11,127.76	12,821.76
Total—Municipalities..	14,330,758.70	1,229,694.35	15,560,453.05
Province of Ontario.....	54,669,977.35	4,772,389.74	59,442,367.09
GRAND TOTAL.....	69,000,736.05	6,002,084.09 (see note)	75,002,820.14

NOTE: The net provision and interest credited during the year consist of the following amounts shown in the Statement of Sinking Fund Reserve:

Interest.....	\$ 2,760,029.44
Provision—direct.....	3,941,756.00
—indirect.....	27,419.00
	\$ 6,729,204.44
Less credits resulting from prepaid and matured sinking funds...	727,120.35
	\$ 6,002,084.09



## The Amalgamated Systems

The following statements show the financial position as at January 1, 1962, after giving effect to the provisions of the Act to effect the Consolidation of All Works and Systems of The Hydro-Electric Power Commission of Ontario:

Balance Sheet

Summary of Fixed Assets

Accumulated Depreciation

Exchange Discount (Net) on Funded Debt

Sinking Fund Equity

Province of Ontario — Surplus Account

Reserve for Stabilization of Rates and Contingencies

The costs and revenues of the Amalgamated Systems will be segregated by four basic groups of customers:

1. **Cost-contract Municipalities** comprising municipal electrical utilities who have contracted for a supply of power at cost for the purpose of retailing this power at rates approved by the Commission.
2. **Municipal Bulk** comprising industrial customers located within the boundaries of cost-contract municipalities but served directly by the Commission at fixed rates.
3. **Power District Bulk** comprising industrial customers located outside the boundaries of cost-contract municipalities and served directly by the Commission and a few remaining municipalities, both being supplied at fixed rates.
4. **Power District Retail** comprising retail customers of the former Rural Power District and Local Distribution Systems, being all retail customers served by the Commission from its distribution lines located outside the boundaries of cost-contract municipalities.

It will be noted on page 161 that special sections of the Reserve for Stabilization of Rates and Contingencies have been set aside for customers in groups 2, 3 and 4.

Operating results for each group will be reported commencing with the year 1962.

THE HYDRO-ELECTRIC POWER  
AMALGAMATED  
BALANCE SHEET

ASSETS

FIXED ASSETS AT COST:

In service .....	\$ 2,354,818,383	
Under construction .....	106,790,874	
	<hr/> \$ 2,461,609,257	
Less accumulated depreciation .....	305,253,151	
	<hr/>	\$ 2,156,356,106

FREQUENCY STANDARDIZATION:

Cost of completed standardization after charging \$168,628,489 to reserves and cost of power—balance to be written off in future years .....	182,201,400
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CURRENT ASSETS:

Cash .....	\$ 40,958,532	
Temporary investments in government and government-guaranteed securities, at market value .....	16,110,585	
Accounts receivable .....	34,008,853	
	<hr/>	91,077,970

INVENTORIES HELD FOR OPERATION, MAINTENANCE AND

CONSTRUCTION:

Coal at cost .....	\$ 12,888,610	
Other materials and supplies at cost .....	12,365,149	
Tools and equipment at cost less depreciation .....	11,386,417	
	<hr/>	36,640,176

DEFERRED CHARGES AND OTHER ASSETS:

Debenture discount and expense less amounts written off ...	\$ 20,929,607	
Account receivable in annual instalments 1962-1989 .....	1,722,928	
Deferred work orders and other assets .....	6,888,794	
Customers' securities on deposit .....	1,732,912	
	<hr/>	31,274,241

INVESTMENTS:

Investments held at amortized cost plus accrued interest on special reserve investments (approximate market value \$273,511,000)		
Special reserves .....	\$ 131,195,847	
General reserve .....	130,062,765	
Sinking fund .....	20,929,622	
	<hr/>	282,188,234
		<hr/> <hr/> \$ 2,779,738,127

**Auditors' Report**

We have examined the balance sheet of the Amalgamated Systems of The Hydro-Electric Power Commission of Ontario as at January 1, 1962. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the accompanying balance sheet presents fairly the financial position of the Amalgamated Systems of the Commission as at January 1, 1962.

CLARKSON, GORDON & CO.  
Chartered Accountants.

Toronto, Canada,  
June 29, 1962.

## COMMISSION OF ONTARIO

## SYSTEMS

AS AT JANUARY 1, 1962

## LIABILITIES, RESERVES, AND CAPITAL

## LONG-TERM LIABILITIES:

Funded debt.....	\$ 1,905,826,000	
Advances from the Province of Ontario.....	13,662,357	
Total at par of exchange, including \$14,233,666 maturing in 1962.....	\$ 1,919,488,357	
Less exchange discount (net) incurred on \$357,787,357 pay- able in United States funds.....	1,203,272	
		\$ 1,918,285,085

## CURRENT LIABILITIES:

Interest accrued on long-term liabilities.....	\$ 26,683,703	
Accounts and payrolls payable and accrued charges.....	22,429,619	
Customers' deposits.....	4,622,127	
		53,735,449

## SPECIAL RESERVES:

Pension fund.....	\$ 128,278,854	
Employer's liability insurance fund.....	3,098,399	
Employees' savings and insurance fund.....	301,035	
		131,678,288

## GENERAL RESERVE:

Stabilization of rates and contingencies.....	158,059,842
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## CAPITAL:

Sinking fund equity.....	\$ 402,061,655	
Capital contributed by Province of Ontario to assist rural construction.....	115,917,808	
		517,979,463

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\$ 2,779,738,127

NOTE: Commitments under uncompleted contracts for the construction of fixed assets approximately \$50,000,000.

## AMALGAMATED

SUMMARY OF FIXED ASSETS  
January 1, 1962

	In Service	Under Construction	Total
	\$	\$	\$
Balances at December 31, 1961:			
Southern Ontario System .....	1,931,060,201	52,049,680	1,983,109,881
Northern Ontario Properties .....	423,758,182	54,741,194	478,499,376
Balances at January 1, 1962 .....	2,354,818,383	106,790,874	2,461,609,257
Consisting of:			
Power system assets .....	2,038,818,051	103,511,195	2,142,329,246
Retail distribution plant .....	278,067,458	2,070,539	280,137,997
Administrative and service land, buildings and equipment .....	37,932,874	1,209,140	39,142,014
	2,354,818,383	106,790,874	2,461,609,257

ACCUMULATED DEPRECIATION  
January 1, 1962

	Power System	Rural Power District	Retail Distribution	Administrative and Service Buildings and Equipment	Total
	\$	\$	\$	\$	\$
Balances at December 31, 1961:					
Southern Ontario System .....	186,433,348	54,589,839	.....	8,806,808	249,829,995
Northern Ontario Properties .....	45,457,681	9,165,989	.....	799,486	55,423,156
Transfer to reclassify as "Retail Distribution" the depreciation ac- cumulated on Rural Power District and Local Distribution System assets .....	1,674,569	63,755,828	65,430,397	.....	.....
Balances at January 1, 1962 .....	230,216,460	.....	65,430,397	9,606,294	305,253,151

NOTE: The accumulated depreciation for the Power System at January 1, 1962 includes a special allowance of \$4,210,393 for estimated capital losses and other costs in connection with 25-cycle equipment to be retired or converted as a result of frequency standardization in the former Southern Ontario System.

EXCHANGE DISCOUNT (NET) ON FUNDED DEBT  
January 1, 1962

	Discount	Premium	Net Discount
	\$	\$	\$
Exchange discount and premium on funded debt issued in United States funds:			
Balances at December 31, 1961—			
Southern Ontario System .....	5,385,005	4,716,900	668,105
Northern Ontario Properties .....	711,656	176,489	535,167
Balances at January 1, 1962 .....	6,096,661	4,893,389	1,203,272



## SYSTEMS

## SINKING FUND EQUITY

January 1, 1962

**Southern Ontario System:**

Balances at December 31, 1961—	
Power System and Rural Power District .....	\$ 335,302,466
Administrative and service buildings and equipment .....	4,304,841
Balance at January 1, 1962 .....	<u>\$ 339,607,307</u>

**Northern Ontario Properties:**

Balances at December 31, 1961—	
Province of Ontario	
—40-year basis .....	\$ 46,893,895
—Prepaid sinking funds .....	12,548,472
Municipalities supplied with power at cost .....	15,560,453
	<u>\$ 75,002,820</u>
Deduct transfer of the "Province of Ontario—Prepaid Sinking Funds" section of the account to the Reserve for Stabilization of Rates and Contingencies (Note) .....	12,548,472
Balance at January 1, 1962 .....	<u>62,454,348</u>

**Amalgamated Systems:**

Balance at January 1, 1962, consolidated into one section called "Municipalities and Power District" .....	<u>\$ 402,061,655</u>
--	-----------------------

NOTE: Prior to January 1, 1962 the Province of Ontario had a beneficial interest in the sinking fund equity contributed by persons served for its account in the former Northern Ontario Properties. On that date the Commission was enabled by Section 4 (1) of The Power Commission's Systems Consolidation Act 1961-62, to transfer and allocate such equity as it, in its discretion, might determine for the benefit of such persons.

## AMALGAMATED SYSTEMS

**Surplus arising from the supply of power to customers  
served for the account of the Province of Ontario  
January 1, 1962**

Balance December 31, 1961 .....	\$ 318,545
Deduct transfer to the Reserve for Stabilization of Rates and Contingencies .....	318,545
Balance January 1, 1962 .....	<u>NIL</u>

NOTE: On January 1, 1962 all the assets in the Northern Ontario Properties previously held in trust for the Province of Ontario became vested absolutely in the Commission under Section 2 of The Power Commission's Systems Consolidation Act, 1961-62.

THE HYDRO-ELECTRIC POWER  
AMALGAMATED  
RESERVE FOR STABILIZATION  
January 1,

	Held for the Benefit of All Customers		
	Per Kilowatt of 1961 Average of Monthly Peak Loads	System Pool (Note 1)	Rural Power District
	\$	\$	\$
<b>Southern Ontario System:</b>			
Balances at December 31, 1961 .....	28.37	122,310,373	2,249,534
Segregation of the Rural Power District section of the reserve between bulk and retail customers (Note 3) .....	.....	.....	2,249,534
Balances at January 1, 1962 .....	.....	122,310,373	.....
<b>Northern Ontario Properties:</b>			
Balances at December 31, 1961 .....	19.95	17,933,272	.....
Reclassification of part of the reserve held for the benefit of cost-contract municipalities in the former Thunder Bay System (Note 4) .....	8.42	658,257	.....
Add amounts transferred from other accounts (Note 5):			
Sinking fund equity .....	8.42	6,906,863	.....
Province of Ontario surplus account .....	.....	.....	.....
Balances at January 1, 1962 .....	.....	25,498,392	.....
<b>Amalgamated Systems:</b>			
Balances at January 1, 1962 .....	.....	147,808,765	.....

NOTES: 1. These portions of the reserve which were formerly called "Power System" and "Maximum Power Cost" have been renamed "System Pool" and "Low-voltage Cost Relief" respectively to better indicate their purpose.

2. Customers previously described as "Municipal Direct Customers" in the former Southern Ontario System are now referred to as "Bulk Customers in Cost-contract Municipalities" (Municipal Bulk Customers) and the portion of the reserve held for their benefit has been retitled accordingly.

3. As of January 1, 1962, the Rural Power District was renamed the "Power District", and the portion of the reserve held for the benefit of its customers in the former Southern Ontario System has been divided between Power District Bulk (previously called "Rural Direct") and Retail Customers. The amount of \$874,023 shown above as being held for the benefit of Power District Bulk Customers represents the net income from these customers (plus interest improvement) which was deducted from the cost of power of the Rural Power District of the former Southern Ontario System commencing on January 1, 1960, the date on which these customers were recognized as a separate category.

4. On January 1, 1962 all the assets previously held in trust for the municipalities comprised in the former Thunder Bay System became vested absolutely in the Commission under Section 2 of The Power Com-

## COMMISSION OF ONTARIO

## SYSTEMS

## OF RATES AND CONTINGENCIES

1962

Held for the Benefit of Certain Groups of Customers					
Cost-contract Municipalities		Bulk Customers		Retail Customers	Total
Low-voltage Cost Relief (Note 1)	Former Thunder Bay System	In Cost-contract Municipalities (Note 2)	In Power District (Note 3)	In Power District (Note 3)	
\$	\$	\$	\$	\$	\$
461,032	.....	1,076,696	.....	.....	126,097,635
.....	.....	.....	874,023	1,375,511	.....
461,032	.....	1,076,696	874,023	1,375,511	126,097,635
.....	1,161,918	.....	.....	.....	19,095,190
10,950	669,207	.....	.....	.....	.....
576,623	.....	1,158,495	3,906,491	.....	12,548,472
32,558	.....	65,413	220,574	.....	318,545
620,131	492,711	1,223,908	4,127,065	.....	31,962,207
1,081,163	492,711	2,300,604	5,001,088	1,375,511	158,059,842

mission's Systems Consolidation Act, 1961-62. The reclassification of part of the reserve held for the benefit of cost-contract municipalities in that system (\$658,257 to system pool and \$10,950 to low-voltage cost relief) has been made to permit these municipalities to share in these portions of the reserve equally (at \$28.37 per kilowatt in the case of System Pool) with the customers of the former Southern Ontario System.

5. The amount of \$12,548,472 transferred from sinking fund equity represents the balance of prepaid sinking funds at December 31, 1961 accumulated by charges to customers served for the account of the Province of Ontario in the former Northern Ontario Properties. Of this amount, \$6,906,863 has been allocated to System Pool to permit all customers in the former Northern Ontario Properties other than cost-contract municipalities in the former Thunder Bay System (see Note 4) to share equally with the other beneficiaries in this section of the reserve at \$28.37 per kilowatt. The remainder and the December 31, 1961 balance of \$318,545 transferred from the Province of Ontario Surplus Account, have been allocated to Low-voltage Cost Relief, Municipal Bulk, and Power District Bulk sections of the reserve in proportion to the 1961 average of monthly peak loads of the following groups of customers in the former Northern Ontario Properties: (a) Municipalities, except those served on cost contracts in the former Thunder Bay System (b) Municipal Bulk Customers and (c) all customers in the Power District.

## APPENDIX III—RURAL

**P**OWER is delivered in wholesale quantities by the Commission to 97 rural operating areas in the Rural Power District. Within the areas, retail customers are supplied under the following six classes of service: farm, hamlet residential, rural residential, commercial, summer, and industrial power. The description of these classes of service and the rates applicable to them at December 31, 1961 are included in this appendix.

### **Description of Main Classes of Service**

Farm service means service rendered to a property used for the production of food or industrial crops. It provides for the electrical supply of all farm buildings and equipment located on a farm and used for farm purposes, including equipment required for processing the products of that farm. Service may be supplied under one farm contract to all dwellings or separate domestic establishments located on the farm and occupied by persons engaged in its operation. Additional dwellings or domestic establishments located on a farm property and occupied by persons otherwise engaged are classed as residential service. Small properties of thirty acres and under are classified as residential service unless special circumstances warrant a classification as farm service.

Hamlet residential service is supplied to all domestic establishments in built-up areas where there are six or more customers in any quarter-mile section of road.

Rural residential service is supplied to isolated domestic establishments served as part of a rural operating area.

Commercial service applies to a wide variety of business or community establishments such as hotels, offices, stores, churches, schools, or small manufacturing and processing plants. Sign and display lighting is included.

Summer service is applicable to residential properties normally used only during the summer months.



Industrial power service is 3-phase service to such power users as creameries, cheese factories, chopping mills, and other industrial establishments.

**Rural Rate Structure**

Rural rates in effect throughout the Province are given in the accompanying tables. They are quoted on a monthly basis, except the rate for summer service, which is quoted on an annual basis. Each contract within each class of service has a rating, and the energy used is billed for the most part on the basis of a three-step energy rate, the bill being subject to a monthly minimum, or with respect to summer service, to an annual fixed charge. The number of kilowatt-hours billed at the first and second energy rates and the amount of the minimum monthly bill, or the annual fixed charge, depend on the contract rating. For contracts with a demand rating (CD, and Industrial Power) these aspects of the bill are based on measured demand and are subject to minima related to demands established in previous billing periods.

For industrial power service there are eight different schedules. These are numbered in the following table. The alphabetical list of the 97 rural operating areas indicates the schedule number of the power service rate applicable to each area, as at December 31, 1961.

Rural Power District  
RATES AND TYPICAL BILLS FOR ELECTRICAL SERVICE  
as at December 31, 1961

*Rates are quoted on a monthly basis for all services except summer service, which are quoted on an annual basis. All are subject to 10% prompt payment discount*

Class and rating	Number of kilowatt-hours per month billed at uniform kwh rate shown						Minimum bill per month (gross)	Net monthly bill for		
	4.5¢	2.6¢	1.1¢	1.5¢	1.7¢	0.5¢		100 kwh	300 kwh	500 kwh
<b>Hamlet Residential</b>							\$	\$	\$	\$
H20 (see note)...	60	80	500	All addl.	...	...	1.67	3.37	5.89	7.87
H.....	60	180	500	"	...	...	2.25	3.37	7.24	9.22
<b>Rural Residential</b>										
R20 (see note)...	60	80	...	All addl.	...	...	1.67	3.37	6.46	9.16
R.....	60	180	...	"	...	...	2.25	3.37	7.45	10.15
<b>Commercial</b>										
C20 (see note)...	60	120	...	All addl.	...	...	1.50	3.37	6.86	9.56
C35.....	90	180	...	"	...	...	2.25	3.88	8.26	10.96
C50.....	150	300	...	"	...	...	3.75	4.05	9.58	13.77
CD.....	15*	30*	...	"	...	...	.40*	....	9.58†	13.77†
<b>Farm—Part I</b> (Monthly consumption 2000 kwh or less)										
F.....	60	180	...	All addl.	...	...	2.25	3.37	7.45	10.15
<b>—Part II</b> (Monthly consumption greater than 2,000 kwh min. demand 10 kw)								Net monthly bill for		
								2,000 kwh	3,000 kwh	4,000 kwh
FD.....	...	...	...	.....	200*	All addl.	....	\$ 30.60†	\$ 35.10†	\$ 39.60†
								Net annual bill for		
								500 kwh	750 kwh	1,000 kwh
<b>Summer (on annual basis)</b>								\$	\$	\$
S.....	225§	675§	...	All addl.	...	...	44.44§†	40.00	41.40	46.26

Industrial Power

Schedule	No. of kwh in first block	No. of kwh in second block	Demand rate per kw	Energy rate per kwh for			Net monthly bill for use of 1 kw of demand		
				First block of kwh	Second block of kwh	All additional kwh	100 hours	200 hours	300 hours
			\$	¢	¢	¢	\$	\$	\$
1.....	50*	50*	1.35	2.3	1.5	0.33	2.92	3.22	3.52
2.....	50*	50*	1.35	2.6	1.7	0.33	3.15	3.45	3.74
3.....	50*	50*	1.35	2.8	1.8	0.33	3.28	3.58	3.88
4.....	50*	50*	1.35	3.1	2.0	0.33	3.51	3.81	4.10
5.....	50*	50*	1.35	3.4	2.2	0.33	3.73	4.03	4.33
6.....	50*	50*	1.35	3.7	2.4	0.33	3.96	4.26	4.55
7.....	50*	50*	1.35	4.0	2.6	0.33	4.18	4.48	4.78
8.....	50*	50*	1.35	4.6	3.0	0.33	4.63	4.93	5.23

§Per year

\*Per kw of demand

†Includes annual fixed charge of \$22.22

‡Calculated on basis of minimum demand of 10 kw

NOTE—The H20, R20, and C20 rates were discontinued as of January 1, 1959 except for existing 2-wire services at that date.

## Area Industrial Power Service Schedules in Effect

Rural operating area	Schedule	Rural operating area	Schedule	Rural operating area	Schedule
Algoma.....	6	Guelph.....	4	Richmond Hill.....	4
Alliston.....	5	Huntsville.....	5	Ridgetown.....	6
Arnprior.....	4	Kapuskasing.....	6	St. Catharines.....	3
Atikokan.....	8	Kenora.....	8	St. Thomas.....	5
Aylmer.....	5	Kingston.....	4	Sarnia.....	5
Bala.....	4	Kirkland Lake.....	6	Shelburne.....	5
Bancroft.....	7	Kitchener.....	4	Simcoe.....	4
Barrie.....	5	Lakefield.....	4	Stayner.....	4
Beachville.....	4	Lancaster.....	4	Stoney Creek.....	2
Beamsville.....	4	Listowel.....	4	Caledonia Section	4
Belleville.....	4	London.....	5	Stratford.....	4
Blenheim.....	5	Lucan.....	5	Strathroy.....	5
Bowmanville.....	4	Manitoulin.....	8	Sudbury.....	6
Bracebridge.....	4	Markdale.....	4	Sutton.....	5
Brampton.....	4	Markham.....	4	Terrace Bay.....	7
Brantford.....	4	Matheson.....	6	Tillsonburg.....	4
Brockville.....	4	Merlin.....	6	Timmins.....	6
Cannington.....	5	Merrickville.....	4	Tweed.....	5
Cayuga.....	6	Minden.....	6	Uxbridge.....	5
Chatham.....	4	Napanee.....	4	Vankleek Hill.....	4
Clinton.....	5	New Liskeard.....	6	Walkerton.....	5
Cobden.....	4	North Bay.....	6	Wallaceburg.....	5
Coburg.....	4	Norwood.....	5	Warren.....	6
Delta.....	4	Oil Springs.....	6	Welland.....	1
Dryden.....	8	Orangeville.....	6	West Lorne.....	6
Dundas.....	4	Orillia.....	3	Winchester.....	4
Dunnville.....	5	Oshawa.....	4	Wingham.....	5
Elmira.....	4	Ottawa.....	2	Woodbridge.....	5
Essex.....	5	Owen Sound.....	5		
Exeter.....	5	Parry Sound.....	5		
Fenelon Falls.....	5	Penetanguishene.....	5		
Forest.....	6	Perth.....	4		
Fort Frances.....	8	Peterborough.....	1		
Frankford.....	4	Picton.....	5		
Geraldton.....	8	Port Arthur.....	5		

Rural Power District  
MILES OF LINE, NUMBER OF CUSTOMERS  
as at December 31, 1961

Rural operating areas by regions	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN ONTARIO SYSTEM									
WESTERN									
Aylmer.....	336.71	1,594	230	1,030	239	12	135	11	3,251
Beachville.....	498.75	1,849	177	1,260	300	4	32	23	3,645
Blenheim.....	141.82	655	145	474	118	13	262	10	1,677
Chatham.....	313.18	1,360	380	961	255	.....	.....	13	2,969
Clinton.....	801.48	3,135	170	1,086	407	9	894	19	5,720
Essex.....	928.88	5,022	500	5,323	825	102	3,436	135	15,343
Exeter.....	275.79	1,225	48	370	147	11	513	15	2,329
Forest.....	341.21	1,408	100	257	140	56	1,118	8	3,087
London.....	473.29	1,950	418	1,675	392	.....	32	54	4,521
Lucan.....	382.80	1,458	97	172	114	.....	.....	7	1,848
Merlin.....	395.29	1,646	204	431	250	3	413	19	2,966
Oil Springs.....	364.49	1,493	80	266	212	.....	.....	25	2,076
Ridgetown.....	371.56	1,414	175	497	212	28	634	12	2,972
St. Thomas.....	309.37	1,219	237	1,345	245	.....	14	10	3,070
Sarnia.....	290.35	1,197	149	2,767	366	11	502	20	5,012
Stratford.....	678.22	2,936	193	999	370	.....	.....	22	4,520
Strathroy.....	531.36	1,979	297	780	271	.....	.....	12	3,339
Tillsonburg.....	465.82	1,958	421	1,233	353	.....	.....	29	3,994
Wallaceburg.....	470.94	1,804	338	1,409	368	1	375	23	4,318
West Lorne.....	503.44	1,844	115	281	228	.....	67	14	2,549
Total.....	8,874.75	37,146	4,474	22,616	5,812	250	8,427	481	79,206
NIAGARA AND WEST CENTRAL									
Beamsville.....	380.52	1,980	265	2,903	402	2	68	48	5,668
Brantford.....	558.32	2,227	509	964	351	4	17	10	4,082
Cayuga.....	536.89	2,002	287	887	294	23	1,685	28	5,206
Dundas.....	382.12	1,728	304	4,134	359	.....	3	44	6,572
Dunnville.....	280.43	1,087	292	781	230	68	1,277	14	3,749
Elmira.....	501.07	1,681	195	1,303	311	15	304	22	3,831
Guelph.....	399.46	1,348	343	1,609	265	.....	16	17	3,598
Kitchener.....	473.14	1,632	282	2,510	411	.....	172	54	5,061
Listowel.....	674.01	2,878	118	758	368	2	111	24	4,259
St. Catharines..	209.06	1,226	183	2,257	296	.....	202	34	4,198
Simcoe.....	805.23	3,493	1,032	2,538	547	54	1,728	28	9,420
Stoney Creek.....	278.62	986	206	5,089	478	1	125	69	6,954
Welland.....	421.77	1,321	470	3,454	486	36	832	50	6,649
Total.....	5,900.64	23,589	4,486	29,187	4,798	205	6,540	442	69,247







**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1961**

Rural operating areas by regions	Miles of primary line	Number of customers							
		Farm	Residential		Com-mercial	Summer		Power	Total
			Rural	Hamlet		Com-mercial	Other		
<b>SOUTHERN ONTARIO SYSTEM</b> —Continued									
<b>CENTRAL</b>									
Bowmanville....	324.93	966	294	1,063	221	27	104	17	2,692
Brampton.....	522.49	1,642	810	2,617	411	21	180	92	5,773
Markham.....	320.95	993	446	5,174	510	33	503	52	7,711
Oshawa.....	274.75	808	395	2,917	352	11	152	36	4,671
Richmond Hill..	318.35	934	280	7,774	721	4	185	102	10,000
Sutton.....	357.54	1,002	323	3,058	387	110	3,386	22	8,288
Woodbridge....	414.22	1,164	524	3,666	652	.....	76	109	6,191
Total.....	2,533.23	7,509	3,072	26,269	3,254	206	4,586	430	45,326
<b>GEORGIAN BAY</b>									
Alliston.....	502.46	1,975	326	884	241	7	34	19	3,486
Bala.....	283.33	10	163	582	115	101	3,073	3	4,047
Barrie.....	522.69	1,453	618	2,729	463	89	3,761	27	9,140
Bracebridge....	516.41	309	495	1,099	229	138	3,461	13	5,744
Cannington....	502.07	1,216	290	964	254	47	3,159	13	5,943
Huntsville.....	653.94	651	596	1,405	360	194	2,877	17	6,100
Markdale.....	662.10	2,273	200	721	331	13	780	14	4,332
Orangeville....	524.93	1,390	482	1,321	371	10	486	19	4,079
Orillia.....	611.48	996	489	2,555	497	136	4,167	18	8,858
Owen Sound....	959.28	2,525	364	1,630	559	167	3,784	19	9,048
Parry Sound....	491.70	207	467	1,072	267	155	1,687	14	3,869
Penetanguishene	565.54	963	364	1,084	269	175	5,890	9	8,754
Shelburne.....	727.75	2,408	202	245	228	2	90	.....	3,175
Stayner.....	368.41	1,186	151	1,188	264	243	3,456	6	6,494
Uxbridge.....	510.91	1,576	338	1,075	284	24	1,648	15	4,960
Walkerton.....	861.97	3,185	294	839	410	25	782	17	5,552
Wingham.....	704.96	2,667	86	684	337	31	841	10	4,656
Total.....	9,969.93	24,990	5,925	20,077	5,479	1,557	39,976	233	98,237

**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1961**

Rural operating areas by regions	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN									
ONTARIO SYSTEM									
—Concluded									
EAST CENTRAL									
Bancroft . . . . .	525.92	612	300	1,280	229	96	1,500	6	4,023
Belleville . . . . .	216.79	790	212	1,489	252	3	47	19	2,812
Cobourg . . . . .	606.58	1,694	516	1,529	331	78	1,088	17	5,253
Fenelon Falls . . .	544.53	1,037	134	797	259	152	3,903	11	6,293
Frankford . . . . .	595.91	1,996	439	1,535	362	37	557	14	4,940
Kingston . . . . .	908.83	2,011	539	4,889	728	59	1,787	59	10,072
Lakefield . . . . .	486.87	558	233	684	192	108	3,625	1	5,401
Minden . . . . .	548.60	357	315	1,380	357	157	4,053	5	6,624
Napanee . . . . .	585.53	1,938	339	1,270	419	41	483	11	4,501
Norwood . . . . .	401.45	958	177	425	142	42	1,430	5	3,179
Peterborough . . .	676.56	1,790	361	2,767	444	80	1,467	33	6,942
Picton . . . . .	479.65	1,735	401	1,521	323	78	823	15	4,896
Tweed . . . . .	631.66	1,161	584	804	333	133	990	2	4,007
Total . . . . .	7,208.88	16,637	4,550	20,370	4,371	1,064	21,753	198	68,943
EASTERN									
Arnprior . . . . .	452.86	1,035	242	1,174	310	42	1,573	22	4,398
Brockville . . . . .	620.53	2,096	525	2,189	470	43	1,020	31	6,374
Cobden . . . . .	1,237.23	2,555	696	3,285	787	127	1,426	37	8,913
Delta . . . . .	469.37	1,049	257	641	259	64	1,406	7	3,683
Lancaster . . . . .	609.54	2,263	514	1,410	457	14	447	35	5,140
Merrickville . . . .	299.99	811	174	614	159	1	272	9	2,040
Ottawa . . . . .	821.75	2,364	930	11,161	932	9	406	122	15,924
Perth . . . . .	891.90	1,980	342	864	388	57	2,113	12	5,756
Vankleek Hill . . .	609.83	2,475	291	1,411	527	13	187	34	4,938
Winchester . . . . .	837.95	3,327	350	1,712	560	1	81	47	6,078
Total . . . . .	6,850.95	19,955	4,321	24,461	4,849	371	8,931	356	63,244



**Rural Power District**  
**MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1961**

Rural operating areas by regions	Miles of primary line	Number of customers							Total
		Farm	Residential		Com- mercial	Summer		Power	
			Rural	Hamlet		Com- mercial	Other		
NORTHERN ONTARIO PROPERTIES									
NORTHEASTERN									
Algoma . . . . .	334.17	379	159	3,981	617	41	310	63	5,550
Kapuskasing . . .	251.68	523	252	2,405	303	14	285	14	3,796
Kirkland Lake . .	126.95	82	71	289	91	19	352	5	909
Manitoulin . . . .	597.23	848	278	1,508	526	96	784	24	4,064
Matheson . . . . .	501.64	906	342	685	219	9	324	8	2,493
New Liskeard . . .	645.54	1,260	427	1,066	376	47	426	18	3,620
North Bay . . . .	823.43	1,097	864	3,749	584	156	1,296	50	7,796
Sudbury . . . . .	606.01	383	1,177	7,715	740	10	1,271	45	11,341
Timmins . . . . .	86.36	147	31	713	84	1	87	12	1,075
Warren . . . . .	518.17	904	470	1,342	399	111	919	14	4,159
Total . . . . .	4,491.18	6,529	4,071	23,453	3,939	504	6,054	253	44,803
NORTHWESTERN									
Atikokan . . . . .	17.22	.....	28	79	32	7	18	1	165
Dryden . . . . .	342.85	383	412	867	260	53	342	11	2,328
Fort Frances . . .	555.45	907	331	536	300	43	115	3	2,235
Geraldton . . . .	136.40	.....	19	717	251	10	18	23	1,038
Kenora . . . . .	276.87	180	303	701	186	135	951	12	2,468
Port Arthur . . .	880.63	1,099	1,365	2,533	451	14	1,310	26	6,798
Terrace Bay . . .	29.29	.....	1	598	92	3	11	6	711
Total . . . . .	2,238.71	2,569	2,459	6,031	1,572	265	2,765	82	15,743

**SUMMARY—MILES OF LINE, NUMBER OF CUSTOMERS**  
**as at December 31, 1961**

System and Region	Miles of primary line	Number of customers							
		Farm	Residential		Com- mercial	Summer		Power	Total
			Rural	Hamlet		Com- mercial	Other		
SOUTHERN									
ONTARIO SYSTEM									
Western.....	8,874.75	37,146	4,474	22,616	5,812	250	8,427	481	79,206
Niagara and									
West Central.	5,900.64	23,589	4,486	29,187	4,798	205	6,540	442	69,247
Central.....	2,533.23	7,509	3,072	26,269	3,254	206	4,586	430	45,326
Georgian Bay...	9,969.93	24,990	5,925	20,077	5,479	1,557	39,976	233	98,237
East Central....	7,208.88	16,637	4,550	20,370	4,371	1,064	21,753	198	68,943
Eastern.....	6,850.95	19,955	4,321	24,461	4,849	371	8,931	356	63,244
Total.....	41,338.38	129,826	26,828	142,980	28,563	3,653	90,213	2,140	424,203
NORTHERN									
ONTARIO									
PROPERTIES									
Northeastern...	4,491.18	6,529	4,071	23,453	3,939	504	6,054	253	44,803
Northwestern...	2,238.71	2,569	2,459	6,031	1,572	265	2,765	82	15,743
Total.....	6,729.89	9,098	6,530	29,484	5,511	769	8,819	335	60,546
Total—All systems	48,068.27	138,924	33,358	172,464	34,074	4,422	99,032	2,475	484,749

## Rural Electrical Service 1952 - 1961

## CUSTOMERS, REVENUE, AND CONSUMPTION, BY CLASSES OF SERVICE

Class of service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	¢
<b>*Farm.....</b>	1952	9,017,321.17	465,813,826	129,451	307	1.94
	1953	11,053,487.41	507,669,118	133,522	322	2.18
	1954	12,207,502.58	558,217,490	136,013	345	2.19
	1955	12,915,852.58	593,811,741	138,648	360	2.18
	1956	13,671,336.65	642,704,082	139,289	385	2.13
	1957	14,386,097.14	685,873,991	140,604	408	2.10
	1958	15,159,553.04	739,105,332	140,343	439	2.05
	1959	16,122,453.84	804,044,121	140,892	477	2.01
	1960	16,688,958.79	850,192,892	140,782	503	1.96
	1961	17,367,400.00	909,189,400	138,924	542	1.91
<b>*Hamlet &amp; Rural Residential.....</b>	1952	7,253,640.00	359,033,745	133,193	233	2.02
	1953	9,560,018.46	421,976,886	150,627	248	2.27
	1954	11,194,393.02	497,941,047	160,552	267	2.25
	1955	12,734,130.77	577,738,311	177,398	285	2.20
	1956	14,639,910.88	689,671,299	181,113	321	2.12
	1957	16,174,554.38	780,555,465	196,025	345	2.07
	1958	17,732,046.03	905,276,590	207,570	374	1.96
	1959	18,862,773.02	988,315,209	218,287	387	1.91
	1960	20,151,434.03	1,070,637,716	221,915	405	1.88
	1961	20,494,966.00	1,096,653,000	205,822	427	1.87
<b>*Commercial (including Summer Commercial).....</b>	1952	2,457,032.13	125,448,544	24,564	468	1.96
	1953	3,385,239.46	148,684,777	28,870	464	2.28
	1954	3,707,824.28	165,641,656	30,403	466	2.24
	1955	3,996,936.76	186,152,293	32,509	493	2.15
	1956	4,444,185.15	210,438,942	33,481	532	2.11
	1957	4,855,540.79	232,393,971	35,179	564	2.09
	1958	5,346,040.16	259,521,563	36,966	600	2.06
	1959	5,764,611.07	282,562,584	38,176	627	2.04
	1960	6,099,889.90	301,874,591	38,887	653	2.02
	1961	6,425,565.00	324,871,900	38,496	700	1.98
<b>*Summer.....</b>	1952	1,826,359.64	40,160,959	55,159	64	4.55
	1953	1,833,881.12	34,136,058	57,547	51	5.37
	1954	2,034,199.00	38,459,711	62,183	54	5.29
	1955	2,214,360.48	40,375,690	68,600	51	5.48
	1956	2,478,450.51	45,989,565	74,390	54	5.39
	1957	2,709,831.47	50,673,331	79,792	55	5.35
	1958	2,943,051.21	55,170,379	85,611	56	5.33
	1959	3,170,306.65	60,345,721	91,390	57	5.25
	1960	4,141,665.36	67,785,615	95,196	61	6.11
	1961	4,358,812.00	74,693,800	99,032	64	5.84
<b>Industrial Power.....</b>	1952	1,799,924.89	102,608,301	1,170	7,676	1.75
	1953	2,147,899.48	121,310,479	1,289	8,222	1.77
	1954	2,545,737.21	148,176,508	1,466	8,964	1.72
	1955	2,934,852.81	171,202,169	1,681	9,067	1.71
	1956	3,402,416.31	207,252,224	1,782	9,975	1.64
	1957	3,732,252.41	225,748,793	2,011	9,920	1.65
	1958	4,410,317.84	278,005,882	2,113	11,235	1.59
	1959	4,612,172.64	287,458,107	2,325	10,795	1.60
	1960	5,017,774.81	325,416,458	2,511	11,215	1.54
	1961	5,414,240.00	354,069,300	2,475	11,835	1.53

\* Beginning in 1959, consumption for flat-rate water-heaters was estimated on the basis of 16.8 hours' daily use instead of 20 hours' daily use as previously. The data for previous years have been adjusted to the new basis.

## APPENDIX IV—LEGISLATIVE

**A**T THE 1960-61 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The Act is reproduced here in full, the short title being as follows:

*The Power Commission Amendment Act, 1960-1961, Chapter 78.*

### ACT

#### CHAPTER 78

#### **An Act to amend The Power Commission Act**

*Assented to March 29th, 1961.*

*Session Prorogued March 29th, 1961.*

**H**ER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. Subsection 7 of section 48 of *The Power Commission Act* is repealed and the following substituted therefor:

R.S.O. 1960,  
c. 300, s. 48,  
subs. 7,  
re-enacted

(7) Subject to subsections 7a and 7b, the payments received under subsections 2, 3, 4 and 5 shall be credited by the municipal corporation to its general fund.

Distribution  
of payments,  
municipal  
portion

(7a) The portion of the payments received under subsections 2, 3, 4 and 5 that is attributable to levies for county purposes shall be paid by the municipal corporation to the county that would have been entitled thereto if the land had been assessed and taxed in the usual way.

Idem,  
county  
portion

Idem,  
elementary  
or secondary  
school  
portion

- (7b) The portion of the payments received under subsection 2 in respect of dwelling houses, including farm properties, rented by the Commission to other persons that is attributable to levies for elementary or secondary school purposes, shall be paid by the municipal corporation to the school boards that would have been entitled thereto if the land had been assessed and taxed in the usual way, and for the purposes of this subsection the tenants of such dwelling houses and farm properties shall be deemed to be rated as tenants on the assessment roll of the municipality.

Use of  
valuations  
for com-  
puting rates

- (7c) The valuations made under this section shall be used for the purpose of computing county rates, school rates and legislative grants in all respects as though the properties valued were not exempt from taxation for such purposes.

Pupil's  
status

- (7d) Where a school board is entitled to a payment under subsection 7b with respect to the property in which a pupil resides with his parent or guardian, any child whose parent or guardian is the tenant of the property shall be deemed to be a resident pupil under the jurisdiction of such school board.

Commence-  
ment

2. This Act shall be deemed to have come into force on the 1st day of January, 1961.

Short title

3. This Act may be cited as *The Power Commission Amendment Act, 1960-61*.



## ORDER IN COUNCIL

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities and corporations mentioned in the list hereunder given were approved by Order in Council.

## CITIES

Ottawa .....	July 17, 1961
Sudbury .....	Sept. 13, 1961

## TOWN

Coniston .....	Feb. 6, 1961
----------------	--------------

## VILLAGES

Killaloe Station .....	Jan. 10, 1961
South River .....	Apr. 21, 1961

## CORPORATIONS

Agnico Mines Limited .....	Jan. 16, 1961
Agnico Mines Limited .....	Oct. 4, 1961
Armstrong Bros. Company Limited .....	Dec. 29, 1961
Atlas Steels Limited .....	Aug. 1, 1961
Atlas Steels Limited .....	Aug. 1, 1961
Canada Cement Company, Limited .....	Jan. 4, 1961
Canada Crushed & Cut Stone Limited .....	July 1, 1959
Canadian Industries, Limited .....	Oct. 18, 1961
Canadian Rock Salt Company Limited .....	June 12, 1961
Dryden Chemicals Limited .....	July 14, 1961
Ethyl Corporation of Canada Limited .....	Dec. 22, 1961
Falconbridge Nickel Mines, Limited .....	Feb. 2, 1961
Faraday Uranium Mines Limited .....	Feb. 28, 1961
Gray, James Joseph .....	Jan. 12, 1961
Her Majesty the Queen in right of the Province of Ontario, represented by the Minister of Public Works for the Province of Ontario .....	Dec. 29, 1961
Huronian Company, Limited and International Nickel Company of Canada, Limited .....	Jan. 16, 1961
Huronian Company, Limited and International Nickel Company of Canada, Limited .....	Jan. 16, 1961
International Nickel Company of Canada, Limited .....	Dec. 21, 1961
Liquid Carbonic Canadian Corporation Limited .....	Feb. 10, 1961
Marathon Corporation of Canada Limited .....	Jan. 31, 1961
Minnesota and Ontario Paper Company .....	June 15, 1961
National Research Council .....	Apr. 11, 1961
Nichols Chemical Company, Limited .....	June 1, 1959
Noranda Mines, Limited .....	July 11, 1961
Norton Company .....	Dec. 28, 1961
Ontario-Minnesota Pulp and Paper Company Limited .....	Dec. 31, 1960
Orenda Engines Limited .....	May 11, 1961
Rio Algom Mines Limited .....	Oct. 18, 1961



# SUPPLEMENT

## MUNICIPAL ELECTRICAL SERVICE

As noted in the Foreword to the report, retail service to the relatively more populous areas of the Province is for the most part the responsibility of the 354 municipal electrical utilities supplied at wholesale by the Commission. These municipal utilities at December 31, 1961 were serving a total of 1,423,427 retail customers. At the year end the Commission itself was providing retail service to an additional 30,508 customers through the facilities of 28 Commission-owned local distribution systems, bringing the combined total of ultimate customers served by all municipal systems to 1,453,935. Since the difference between the municipal utilities and the local systems is administrative rather than functional, both types of retail service are considered together in the two paragraphs that follow and in the statistical tables included in this supplement. Financial reports, however, are given only for the municipal utilities served under cost or fixed-rate contracts.

The numbers in the various customer groups that contribute to these totals reflect reclassifications of customers being made in conjunction with the introduction of new rate schedules. The purpose of these reclassifications is that certain industrial power customers, for example small processing companies such as dairies and bakeries, shall be classified as commercial service, and that commercial service customers with connected loads of less than 5 kilowatts may be billed under residential service. The table on page 176 provides some indication of the growth in residential, commercial, and industrial power service over a 10-year period. The statistical information relative to energy consumption and unit cost for these three main classes of service is reproduced in the graphs on page 177.

Increases in revenue from residential and industrial power service customers at 6.8 per cent and 8.1 per cent were closely related to increases in energy consumption so that the average cost per kilowatt-hour to the customer remained unchanged. For commercial service the corresponding increases were 10.9 per cent

## Municipal Electrical Utilities and Local Systems

## CUSTOMERS, REVENUE, AND CONSUMPTION

1952 to 1961

Service	Year	Revenue	Consumption	Customers	Monthly consumption per customer	Average cost per kwh
		\$	kwh	No.	kwh	¢
Residential .....	1952	36,811,115	3,411,685,705	836,802	340	1.08
	1953	44,647,668	3,734,160,562	877,323	355	1.20
	1954	50,833,346	4,246,511,375	930,674	380	1.20
	1955	55,241,247	4,667,789,930	970,829	401	1.18
	1956	61,234,494	5,191,581,628	1,031,482	419	1.18
	1957	65,842,103	5,602,672,756	1,072,868	435	1.18
	1958	69,804,608	6,036,470,489	1,139,061	442	1.16
	1959	73,955,229	6,540,969,291	1,194,878	456	1.13
	1960	78,337,615	6,944,659,090	1,234,903	469	1.13
	1961	83,682,550	7,400,028,084	1,307,893	472	1.13
Commercial .....	1952	19,502,920	1,387,136,211	115,304	1,003	1.41
	1953	23,603,194	1,526,535,177	119,498	1,065	1.55
	1954	26,293,250	1,694,071,712	123,884	1,140	1.55
	1955	28,576,115	1,858,974,388	127,913	1,211	1.54
	1956	31,423,691	2,081,200,929	127,497*	1,360	1.51
	1957	33,901,487	2,270,913,902	124,757*	1,517	1.49
	1958	35,968,060	2,445,225,765	122,446*	1,664	1.47
	1959	38,079,501	2,669,327,226	120,733*	1,842	1.43
	1960	41,229,320	2,921,670,317	123,441*	1,972	1.41
	1961	45,718,484	3,289,119,534	122,863*	2,231	1.39
Industrial Power....	1952	31,403,227	3,619,518,306	20,055	15,040	0.87
	1953	38,482,884	3,948,124,809	20,885	15,753	0.98
	1954	40,855,075	4,089,513,923	21,671	15,726	1.00
	1955	44,270,882	4,637,527,118	22,237	17,379	0.96
	1956	47,808,610	5,140,704,025	22,809*	18,782	0.93
	1957	50,124,976	5,366,245,253	22,607*	19,781	0.93
	1958	52,741,979	5,651,743,390	23,077*	20,409	0.93
	1959	61,167,603	7,052,152,034	23,545*	24,960	0.87
	1960	64,057,506	7,326,683,025	23,613*	25,857	0.87
	1961	69,215,271	7,994,001,074	23,179*	28,740	0.87

\* Irregular variations from year to year in numbers of customers result from reclassifications from commercial to residential and from industrial power to commercial service billing.

NOTE: Kwh consumption figures for residential and commercial service in the above table reflect the use of flat-rate water-heaters for a uniform average of 16.8 hours per day.

for revenue and 12.6 per cent for energy consumption with a consequent decline in average cost per kilowatt-hour. It is interesting to note that for commercial and industrial power service the cost per kilowatt-hour is approximately what it was in 1952. For residential and commercial service the average cost per kilowatt-hour is actually lower than it was in 1940, notwithstanding the inflationary rise in the general cost of living.

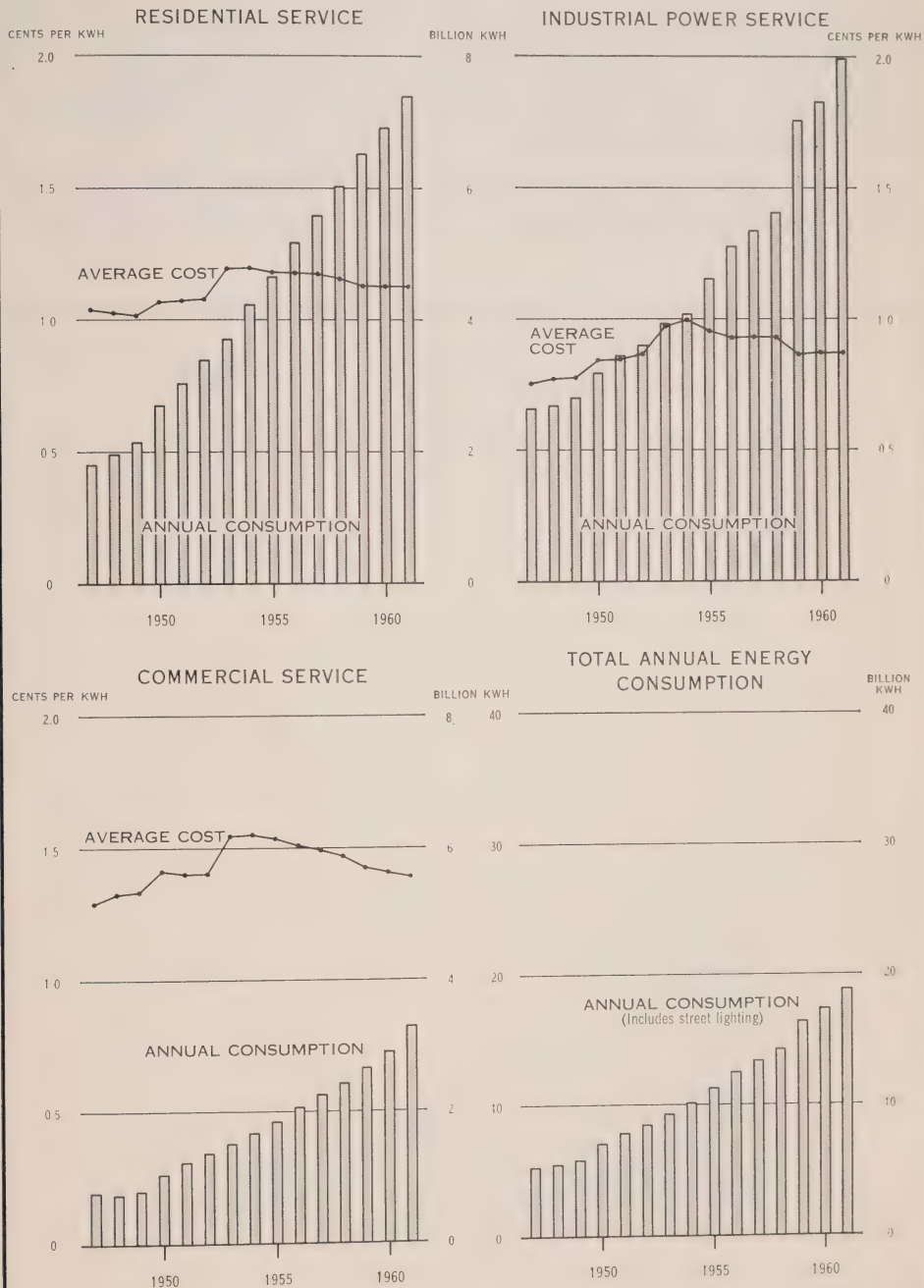
## MUNICIPAL ELECTRICAL UTILITIES

Total revenues of the 354 municipal electrical utilities in 1961 were \$205,165,523 as shown in the table on page 183 where comparative revenues for the preceding nine years are also given. This total is 8.4 per cent greater than total revenues in 1960, and includes \$201,891,409 from the sale of energy, \$81,749,793



## MUNICIPAL ELECTRICAL UTILITIES AND LOCAL SYSTEMS

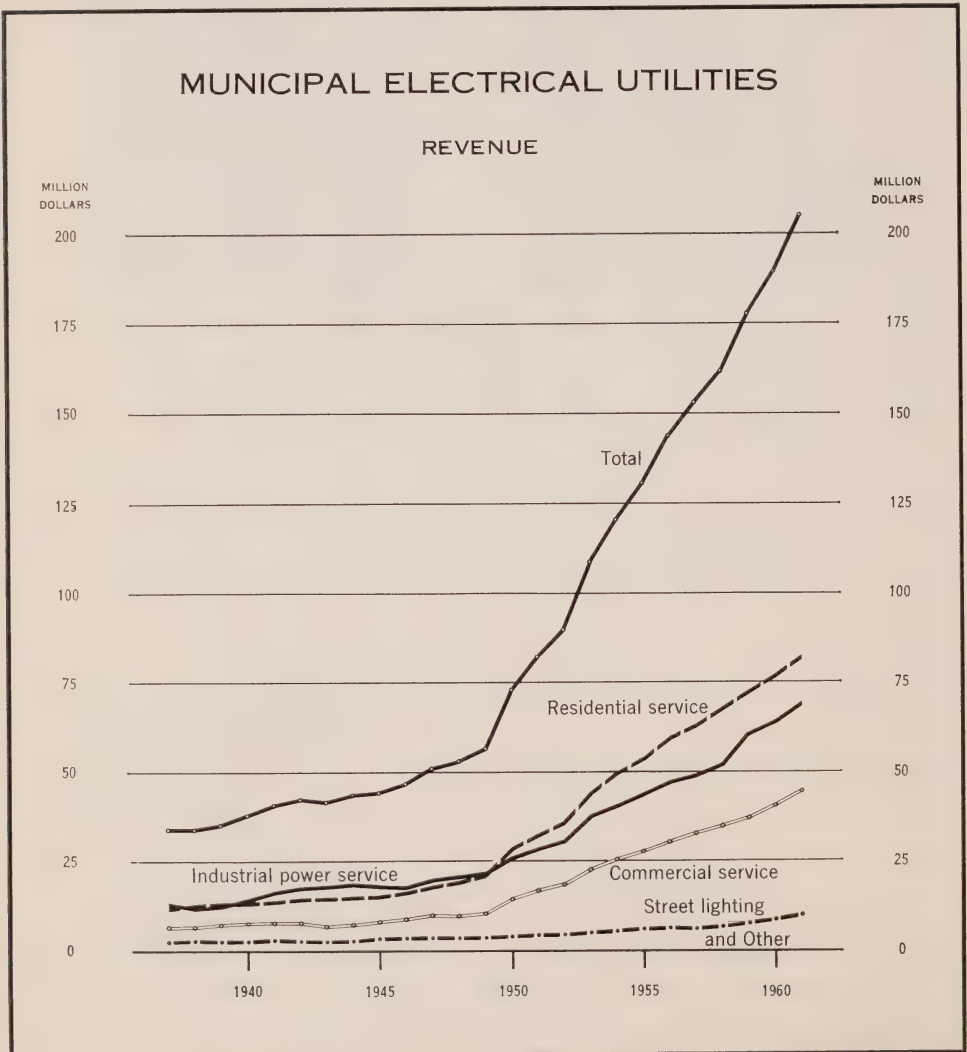
## ANNUAL ENERGY CONSUMPTION AND AVERAGE COST PER KILOWATT-HOUR



(40.5 per cent) from residential service, \$44,662,823 (22.1 per cent) from commercial service, \$68,958,456 (34.2 per cent) from industrial power service, and \$6,520,337 (3.2 per cent) from street-lighting service in municipalities.

The revenues derived from street lighting are based on estimated consumption only (see table on page 106), and the revenue applicable to the municipal utilities is given in the analysis of revenue and expense that follows. In each of the operating statements of the utilities the revenue from street lighting is included in the amount shown for sales of electric energy. It can be derived for any utility by subtracting from the revenue shown in Statement "B" the sum of the revenues for the same utility shown in Statement "D".

Total expenses of \$187,968,189 were higher than those in 1960 by 7.2 per cent. The somewhat larger increases in revenues resulted in a net income of

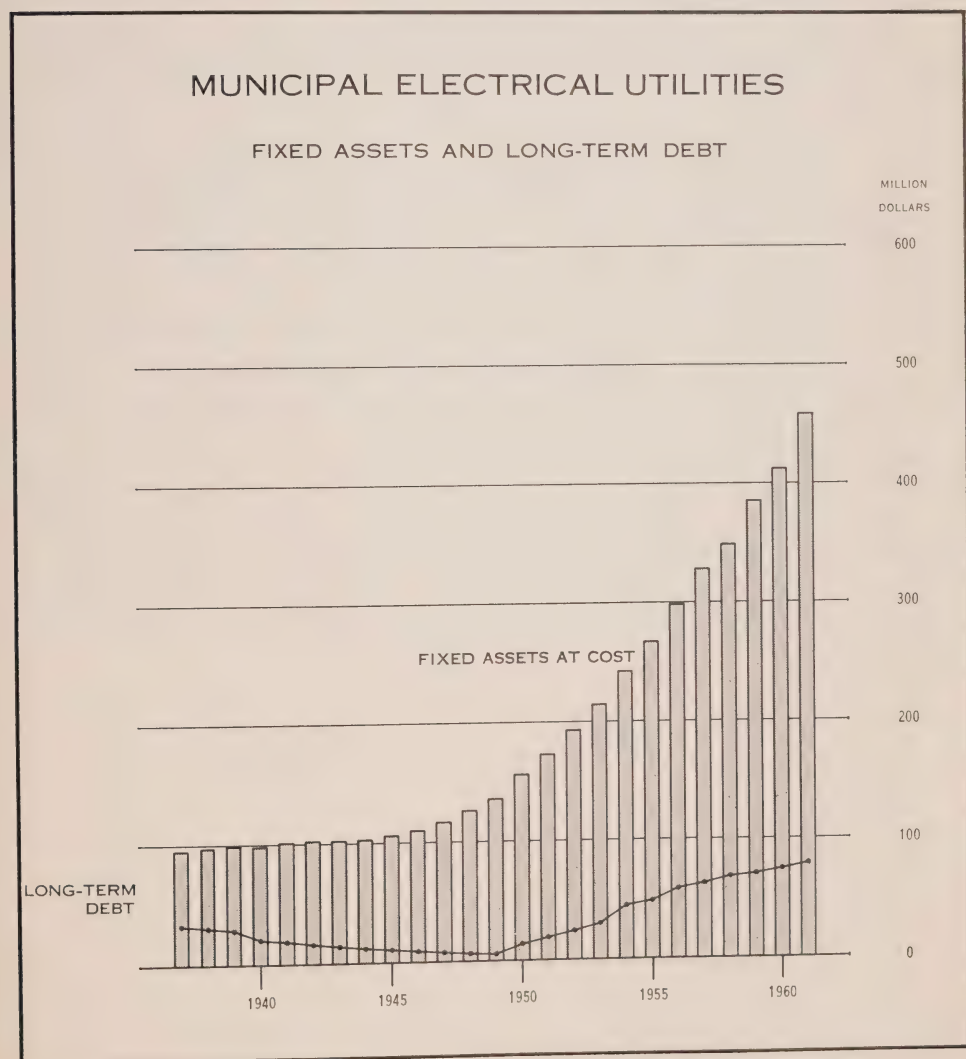


\$17,197,334, which was 8.4 per cent of total revenues as compared with 7.3 per cent in 1960.

### Summary of Financial Position

Total assets of the municipal electrical utilities, after deducting accumulated depreciation, were \$698,947,256, of which \$282,255,861 had been contributed through the cost of power towards the retirement of the Commission's long-term debt.

The amount so contributed therefore represents the equity of the utilities in the Commission's power systems. The amount differs from the sum of the sinking fund reserves shown on the Commission's balance sheet as contributed by the municipal utilities only because most of the utilities close their books for the year before the Commission's annual calculation of sinking fund is available. The utility



balance sheet figures for the equity account are therefore for the most part one year in arrears.

The investment of the municipal electrical utilities in fixed assets at cost amounted to \$457,392,623 against which accumulated depreciation of \$100,165,249 had been provided. Net long-term debt, that is debentures outstanding less local sinking fund, increased by \$6,437,840 to \$78,550,566. At this level net long-term debt represented 17.2 per cent of the cost of fixed assets as compared with 17.4 per cent in 1960.

### **Municipal Retail Rates**

Under The Power Commission Act the Commission exercises supervisory control over the activities of the municipal electrical utilities, and their rates to ultimate customers are subject to the Commission's approval. The rates set will usually provide for some margin of net income in addition to providing for the operating expenses of the utility.

A margin of net income provides both an economical source of funds for normal system expansion and a stabilizing factor in retail rate adjustment, and the Commission takes this into consideration when reviewing municipal retail rates.

### **FINANCIAL AND OTHER STATISTICAL TABLES**

Four statistical tables complete this municipal service supplement. The first two, designated "Statements A and B" and summarized on page 183, deal with accounting operations of the 354 municipal electrical utilities. These statements are the balance sheets and operating statements of the utilities alphabetically arranged for the Southern Ontario System and the Northern Ontario Properties. The other two statements, designated "Statement C" and "Statement D", give rates and statistics for each of the 354 utilities and 28 Commission-owned local systems. Both statements are alphabetically arranged. The rate schedules in Statement "C" are supplemented by typical monthly bills for selected levels of consumption to facilitate comparison of the cost of service in different municipalities. Statement "D" gives information supplementary to that given in Statement "B" regarding customers, revenue, and consumption, both total and average per customer, as well as average unit costs for the three main classes of service. The population figures given are for the most part those recorded in the Municipal Directory for 1962 published by the Department of Municipal Affairs of Ontario.



**MUNICIPAL ELECTRICAL SERVICE**

**Statistical Tables**

**STATEMENTS A and B—**

**Financial Statements of the Municipal Electrical Utilities**  
Consolidated for Years 1952 to 1961.....Page 182  
By Municipalities .....Page 184

**STATEMENT C—**

**Rates and Typical Bills for Electrical Service Provided by the**  
354 Municipal Electrical Utilities and 28 Local Systems .....Page 234

**STATEMENT D—**

**Customers, Revenue, and Consumption in Municipalities Served by**  
the 354 Municipal Electrical Utilities and 28 Local Systems .....Page 256

## MUNICIPAL ELECTRICAL UTILITIES

Year.....	1952	1953	1954	1955
Number of municipalities included. ....	327	332	338	343
<b>A. BALANCE SHEETS</b>				
<b>FIXED ASSETS</b>	\$	\$	\$	\$
Plant and facilities at cost.....	193,795,886	214,595,382	243,525,700	267,090,752
Accumulated depreciation.....	50,985,329	54,282,571	58,973,786	62,413,111
Net fixed assets.....	142,810,557	160,312,811	184,551,914	204,677,641
<b>CURRENT ASSETS</b>				
Cash on hand and in bank.....	4,667,729	4,884,136	7,376,869	9,277,807
Investment in government securities	11,542,720	10,716,659	16,361,137	17,392,469
Accounts receivable.....	7,386,628	10,298,699	10,695,799	9,939,403
Total current assets.....	23,597,077	25,899,494	34,433,805	36,609,679
<b>OTHER ASSETS</b>				
Inventory of stores.....	8,001,403	7,527,844	7,413,229	7,900,466
Sinking fund on local debentures...	388,410	410,806	383,454	383,751
Miscellaneous.....	1,889,669	2,393,860	3,465,797	2,323,308
Total other assets.....	10,279,482	10,332,510	11,262,480	10,607,525
Equity in Ontario Hydro Systems....	128,655,935	140,068,857	152,461,822	167,250,921
	<b>305,343,051</b>	<b>336,613,672</b>	<b>382,710,021</b>	<b>419,145,766</b>
<b>LIABILITIES</b>				
Debentures outstanding.....	24,159,239	29,827,723	45,645,051	49,776,907
Accounts payable.....	10,375,202	10,943,035	11,090,473	10,574,522
Other.....	1,762,833	2,224,181	2,843,742	3,493,146
Total liabilities.....	36,297,274	42,994,939	59,579,266	63,844,575
<b>RESERVES</b>				
Equity in Ontario Hydro Systems...	128,655,935	140,068,857	152,461,822	167,250,921
Other.....	8,008,752	8,153,001	8,095,705	7,765,477
Total reserves.....	136,664,687	148,221,858	160,557,527	175,016,398
<b>CAPITAL</b>				
Debentures redeemed.....	60,260,350	61,417,714	64,210,220	66,488,672
Local sinking fund.....	388,410	410,806	383,454	383,751
Accumulated net income invested in plant or held as working funds.	72,374,288	83,934,775	98,687,493	114,727,112
Frequency standardization expense charged this year.....	641,958	366,420	707,939	1,314,742
Total capital.....	132,381,090	145,396,875	162,573,228	180,284,793
	<b>305,343,051</b>	<b>336,613,672</b>	<b>382,710,021</b>	<b>419,145,766</b>
<b>B. OPERATING STATEMENTS</b>				
<b>REVENUE</b>				
Sales of electric energy.....	88,744,441	107,997,010	119,510,834	129,810,298
Other.....	1,314,598	1,257,311	1,345,281	1,457,199
<b>Total revenue.....</b>	<b>90,059,039</b>	<b>109,254,321</b>	<b>120,856,115</b>	<b>131,267,497</b>
<b>EXPENSE</b>				
Power purchased.....	55,583,501	69,750,630	75,539,512	79,779,898
Local generation.....	322,179	319,744	426,606	459,594
Operation and maintenance.....	9,918,638	10,674,897	11,527,269	12,076,620
Administration.....	7,645,806	8,236,239	9,299,705	9,896,805
Fixed charges—interest and principal	1,981,386	2,400,468	3,242,705	4,216,877
—depreciation.....	5,293,509	5,832,594	6,547,361	7,193,495
—other.....	71,211	147,083	141,824	144,121
<b>Total expense.....</b>	<b>80,816,230</b>	<b>97,361,655</b>	<b>106,774,982</b>	<b>113,767,410</b>
<b>Net income or net expense.....</b>	<b>9,242,809</b>	<b>11,892,666</b>	<b>14,081,133</b>	<b>17,500,087</b>
Number of customers.....	941,975	936,144	1,045,742	1,089,835

## CONSOLIDATED FINANCIAL STATEMENTS 1952-1961

1956	1957	1958	1959	1960	1961
350	351	354	354	354	354
\$	\$	\$	\$	\$	\$
298,832,207	327,925,974	349,706,161	385,419,306	413,611,989	457,392,623
66,539,420	68,975,083	72,673,866	77,551,575	82,246,973	100,165,249
232,292,787	258,950,891	277,032,295	307,867,731	331,365,016	357,227,374
9,858,536	10,819,896	10,769,037	10,400,010	12,250,801	15,105,454
15,512,896	14,174,408	13,333,906	15,560,183	13,990,120	14,672,152
12,776,466	12,573,922	13,911,267	13,463,791	12,868,807	14,190,953
38,147,898	37,568,226	38,014,210	39,423,984	39,109,728	43,968,559
9,681,858	9,579,584	17,237,653	9,381,215	9,197,511	9,590,459
290,682	561,622	1,033,436	1,726,182	2,316,958	3,261,509
2,399,184	1,894,582	2,214,392	2,421,279	2,553,588	2,643,494
12,371,724	12,035,788	20,485,481	13,528,676	14,068,057	15,495,462
183,262,708	200,293,236	218,736,441	238,790,589	261,101,650	282,255,861
<b>466,075,117</b>	<b>508,848,141</b>	<b>554,268,427</b>	<b>599,610,980</b>	<b>645,644,451</b>	<b>698,947,256</b>
58,528,557	63,315,360	69,363,792	70,456,844	74,429,684	81,812,075
11,633,156	11,226,905	10,105,465	10,589,995	10,485,382	12,594,844
3,910,276	4,207,237	6,175,200	6,565,031	7,146,524	7,860,946
74,071,989	78,749,502	85,644,457	87,611,870	92,061,590	102,267,865
183,262,708	200,293,236	218,736,441	238,790,589	261,101,650	282,255,861
6,948,236	5,658,849	3,507,375	2,864,918	2,920,005	2,468,637
190,210,944	205,952,085	222,243,816	241,655,507	264,021,655	284,724,498
69,338,990	72,087,556	75,021,200	77,881,620	81,266,027	84,572,157
290,682	561,622	1,033,436	1,726,182	2,316,958	3,261,509
132,983,134	152,057,614	170,871,551	190,444,985	205,984,657	224,121,227
820,622	560,238	546,033	290,816	6,436	.....
201,792,184	224,146,554	246,380,154	270,343,603	289,561,206	311,954,893
<b>466,075,117</b>	<b>508,848,141</b>	<b>554,268,427</b>	<b>599,610,980</b>	<b>645,644,451</b>	<b>698,947,256</b>
142,629,092	151,855,664	160,700,759	175,686,813	186,599,701	201,891,409
1,554,347	1,580,224	1,723,986	2,400,070	2,720,870	3,274,114
<b>144,183,439</b>	<b>153,435,888</b>	<b>162,424,745</b>	<b>178,086,883</b>	<b>189,320,571</b>	<b>205,165,523</b>
87,344,024	92,682,089	98,563,451	111,160,867	122,634,361	130,857,200
501,386	575,771	509,240	531,076	536,118	529,955
13,406,955	14,362,587	15,544,060	17,065,080	18,273,164	19,486,528
11,015,893	12,086,583	13,654,386	14,954,828	15,766,246	17,342,308
4,744,936	5,504,842	6,175,773	6,824,770	7,440,556	8,203,772
7,709,546	8,389,004	9,216,594	10,030,350	10,750,710	11,466,692
59,374	53,525	13,060	14,316	22,506	81,734
<b>124,782,114</b>	<b>133,654,401</b>	<b>143,676,564</b>	<b>160,581,287</b>	<b>175,423,661</b>	<b>187,968,189</b>
<b>19,401,325</b>	<b>19,781,487</b>	<b>18,748,181</b>	<b>17,505,596</b>	<b>13,896,910</b>	<b>17,197,334</b>
1,153,371	1,192,357	1,255,805	1,310,099	1,351,915	1,423,427

## Municipal Electrical Utilities Financial

## Southern Ontario System

Municipality.....	Acton	Ailsa Craig	Ajax	Alexandria	Alfred	Alliston
Population.....	4,205	549	7,849	2,486	965	2,948
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	400,483	40,332	966,792	272,715	79,896	233,700
Accumulated depreciation.....	59,226	2,437	195,999	73,157	19,765	71,447
Net fixed assets.....	341,257	37,895	770,793	199,558	60,131	162,253
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	11,239	11,795	122,508	8,624	7,657	3,206
Investment in government securities	15,000	.....	.....	13,000	.....	18,000
Accounts receivable (Net).....	5,700	151	24,302	2,852	6,975	6,188
Total current assets.....	31,939	11,946	146,810	24,476	14,632	27,394
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,497	.....	24,792	9,243	.....	5,345
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	2,165	.....	6,382	222	519	151
Total other assets.....	3,662	.....	31,174	9,465	519	5,496
Equity in Ontario Hydro Systems.....	395,674	56,338	101,287	147,754	8,182	143,564
	<b>772,532</b>	<b>106,179</b>	<b>1,050,064</b>	<b>381,253</b>	<b>83,464</b>	<b>338,707</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	57,300	.....	391,000	1,973	29,500	.....
Accounts payable.....	622	.....	2,753	5,862	2,256	1,403
Other.....	9,002	1,911	60,623	12,372	1,921	4,814
Total liabilities.....	66,924	1,911	454,376	20,207	33,677	6,217
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	395,674	56,338	101,287	147,754	8,182	143,564
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	395,674	56,338	101,287	147,754	8,182	143,564
<b>CAPITAL</b>						
Debentures redeemed.....	26,639	6,883	57,238	51,326	8,500	29,990
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	283,295	41,047	437,163	161,966	33,105	158,936
Total capital.....	309,934	47,930	494,401	213,292	41,605	188,926
	<b>772,532</b>	<b>106,179</b>	<b>1,050,064</b>	<b>381,253</b>	<b>83,464</b>	<b>338,707</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	228,883	19,046	363,708	98,311	31,589	119,280
Other.....	412	92	8,454	5,539	232	3,221
Total revenue.....	<b>229,295</b>	<b>19,138</b>	<b>372,162</b>	<b>103,850</b>	<b>31,821</b>	<b>122,501</b>
<b>EXPENSE</b>						
Power purchased.....	164,612	12,359	211,492	80,438	17,857	85,547
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	19,564	1,573	21,757	6,410	2,049	13,954
Administration.....	12,466	884	45,473	9,891	3,103	10,745
Fixed charges—interest and principal	5,449	.....	35,714	2,072	2,991	.....
—depreciation.....	8,899	1,003	22,891	6,755	2,200	5,306
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>210,990</b>	<b>15,819</b>	<b>337,327</b>	<b>105,566</b>	<b>28,200</b>	<b>115,552</b>
Net income or net expense.....	<b>18,305</b>	<b>3,319</b>	<b>34,835</b>	<b>1,716</b>	<b>3,621</b>	<b>6,949</b>
Number of customers.....	1,312	224	2,188	895	305	1,096



Statements for the Year Ended December 31, 1961

Almonte	Alvinston	Amherst- burg	Ancaster Twp.	Apple Hill	Arkona	Arnprior	Arthur	Athens
3,316	626	4,414	13,397	400	497	5,505	1,256	960
\$ 423,708 86,362	\$ 60,569 19,095	\$ 429,005 89,460	\$ 267,581 47,378	\$ 23,078 6,185	\$ 45,694 10,763	\$ 470,926 65,198	\$ 111,385 27,687	\$ 63,943 12,847
337,346	41,474	339,545	220,203	16,893	34,931	405,728	83,698	51,096
1,187	5,301	8,651	25	4,046	2,794	35,919	.....	912
52,000	3,500	17,858	.....	3,000	4,000	.....	10,000	14,000
3,524	763	3,291	91	379	1,580	1,745	1,244	2,100
56,711	9,564	29,800	116	7,425	8,374	37,664	11,244	17,012
9,004	.....	8,882	677	.....	.....	3,632	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	100	314	621	600	.....	.....	300	.....
9,004	100	9,196	1,298	600	.....	3,632	300	.....
58,589	55,101	311,193	129,738	13,436	32,218	220,255	83,721	35,124
<b>461,650</b>	<b>106,239</b>	<b>689,734</b>	<b>351,355</b>	<b>38,354</b>	<b>75,523</b>	<b>667,279</b>	<b>178,963</b>	<b>103,232</b>
.....	.....	13,600	70,658	.....	.....	39,375	.....	.....
20,829	346	4,143	192	330	39	27,201	2,526	93
1,539	109	4,181	2,018	37	40	7,862	778	213
22,368	455	21,924	72,868	367	79	74,438	3,304	306
58,589	55,101	311,193	129,738	13,436	32,218	220,255	83,721	35,124
1,800	.....	.....	.....	.....	.....	1,143	.....	.....
60,389	55,101	311,193	129,738	13,436	32,218	221,398	83,721	35,124
72,000	23,529	54,859	57,589	5,080	13,113	86,093	23,913	12,988
.....	.....	.....	.....	.....	.....	.....	.....	.....
306,893	27,154	301,758	91,160	19,471	30,113	285,350	68,025	54,814
378,893	50,683	356,617	148,749	24,551	43,226	371,443	91,938	67,802
<b>461,650</b>	<b>106,239</b>	<b>689,734</b>	<b>351,355</b>	<b>38,354</b>	<b>75,523</b>	<b>667,279</b>	<b>178,963</b>	<b>103,232</b>
110,302	17,703	204,474	134,995	6,207	20,383	209,674	42,070	19,744
7,159	165	2,747	551	163	156	3,338	447	640
<b>117,461</b>	<b>17,868</b>	<b>207,221</b>	<b>135,546</b>	<b>6,370</b>	<b>20,539</b>	<b>213,012</b>	<b>42,517</b>	<b>20,384</b>
62,301	10,911	133,953	99,537	3,532	15,138	158,091	29,387	16,304
11,625	.....	.....	.....	.....	.....	.....	.....	.....
9,136	1,244	14,006	9,869	1,039	1,446	12,408	5,359	1,682
12,755	2,719	17,017	14,512	1,146	1,315	20,476	2,759	1,500
.....	.....	4,583	9,008	.....	.....	6,642	.....	.....
10,131	1,971	10,352	7,028	670	1,229	12,262	3,144	1,798
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>105,948</b>	<b>16,845</b>	<b>179,911</b>	<b>139,954</b>	<b>6,387</b>	<b>19,128</b>	<b>209,879</b>	<b>40,649</b>	<b>21,284</b>
<b>11,513</b>	<b>1,023</b>	<b>27,310</b>	<b>4,408</b>	<b>17</b>	<b>1,411</b>	<b>3,133</b>	<b>1,868</b>	<b>900</b>
1,096	330	1,440	1,108	114	188	1,779	505	367

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Aurora	Avonmore	Aylmer	Ayr	Baden	Bancroft
Population .....	8,055	248	4,650	1,024	888	2,535
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	613,364	24,213	354,897	81,272	71,548	314,144
Accumulated depreciation.....	114,750	5,995	105,582	14,085	15,061	73,703
Net fixed assets.....	498,614	18,218	249,315	67,187	56,487	240,441
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	119,494	931	26,778	2,359	7,988	28,978
Investment in government securities.....				10,500	6,000	
Accounts receivable (Net).....	4,565	96	3,902	1,149	148	8,469
Total current assets.....	124,059	1,027	30,680	14,008	14,136	37,447
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,726		1,234	75	85	9,284
Sinking fund on local debentures.....						
Miscellaneous.....	5,557	459	517			4,603
Total other assets.....	7,283	459	1,751	75	85	13,887
Equity in Ontario Hydro Systems...	190,174	4,543	289,821	73,114	120,689	36,149
	<b>820,130</b>	<b>24,247</b>	<b>571,567</b>	<b>154,384</b>	<b>191,397</b>	<b>327,924</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	222,000	13,000	38,000			69,125
Accounts payable.....	2,023	7	519	1,536		5,146
Other.....	17,084	2,805	3,691	493	100	2,943
Total liabilities.....	241,107	15,812	42,210	2,029	100	77,214
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	190,174	4,543	289,821	73,114	120,689	36,149
Other.....						
Total reserves.....	190,174	4,543	289,821	73,114	120,689	36,149
<b>CAPITAL</b>						
Debentures redeemed.....	2,775	1,000	50,702	17,503	5,000	63,375
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds..	386,074	2,892	188,834	61,738	65,608	151,186
Total capital.....	388,849	3,892	239,536	79,241	70,608	214,561
	<b>820,130</b>	<b>24,247</b>	<b>571,567</b>	<b>154,384</b>	<b>191,397</b>	<b>327,924</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	349,284	11,144	196,376	42,630	41,610	98,873
Other.....	13,467	80	1,391	319	223	105
Total revenue.....	<b>362,751</b>	<b>11,224</b>	<b>197,767</b>	<b>42,949</b>	<b>41,833</b>	<b>98,978</b>
<b>EXPENSE</b>						
Power purchased.....	224,595	6,591	158,958	29,728	32,317	50,623
Local generation.....						4,469
Operation and maintenance.....	25,800	501	11,891	3,690	1,739	7,643
Administration.....	25,251	726	10,329	2,371	2,642	7,319
Fixed charges—interest and principal	14,286	1,406	4,908			9,393
—depreciation.....	13,679	691	9,716	2,264	1,842	7,819
—other.....						
Total expense.....	<b>303,611</b>	<b>9,915</b>	<b>195,802</b>	<b>38,053</b>	<b>38,540</b>	<b>87,266</b>
Net income or net expense.....	<b>59,140</b>	<b>1,309</b>	<b>1,965</b>	<b>4,896</b>	<b>3,293</b>	<b>11,712</b>
Number of customers.....	2,724	116	1,536	379	279	775

Statements for the Year Ended December 31, 1961

Barrie	Barry's Bay	Bath	Beachburg	Beachville	Beamsville	Beaverton	Beeton	Belle River
21,610	1,432	699	536	836	2,481	1,211	830	1,894
\$ 1,914,892 595,854	\$ 86,994 8,417	\$ 67,100 14,727	\$ 55,938 14,599	\$ 107,345 30,477	\$ 152,173 33,333	\$ 124,858 24,499	\$ 69,895 9,681	\$ 119,487 20,581
1,319,038	78,577	52,373	41,339	76,868	118,840	100,359	60,214	98,906
7,640	10,904	5,570	6,404	18,440	10,032	8,322	9,283	511
14,063	.....	.....	.....	35,000	4,000	.....	1,500	7,000
24,105	4,123	925	2,658	682	250	78	1,976	411
45,808	15,027	6,495	9,062	54,122	14,282	8,400	12,759	7,922
31,771	.....	.....	.....	.....	.....	528	.....	424
2,588	.....	300	7,574	.....	.....	80	.....	945
34,359	.....	300	7,574	.....	.....	608	.....	1,369
999,548	12,898	18,230	.....	202,390	88,336	95,896	60,639	64,344
<b>2,398,753</b>	<b>106,502</b>	<b>77,398</b>	<b>57,975</b>	<b>333,380</b>	<b>221,458</b>	<b>205,263</b>	<b>133,612</b>	<b>172,541</b>
.....	.....	7,500	50,600	.....	.....	.....	.....	2,800
4	646	792	2,117	678	2,188	.....	7	3,227
24,490	485	754	50	491	1,714	667	1,284	1,528
24,494	1,131	9,046	52,767	1,169	3,902	667	1,291	7,555
999,548	12,898	18,230	.....	202,390	88,336	95,896	60,639	64,344
.....	.....	.....	.....	.....	.....	.....	.....	.....
999,548	12,898	18,230	.....	202,390	88,336	95,896	60,639	64,344
65,366	7,500	10,000	1,400	5,537	37,500	12,839	13,610	17,700
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,309,345	84,973	40,122	3,808	124,284	91,720	95,861	58,072	82,942
1,374,711	92,473	50,122	5,208	129,821	129,220	108,700	71,682	100,642
<b>2,398,753</b>	<b>106,502</b>	<b>77,398</b>	<b>57,975</b>	<b>333,380</b>	<b>221,458</b>	<b>205,263</b>	<b>133,612</b>	<b>172,541</b>
915,704	22,191	21,088	24,529	107,333	84,540	63,678	27,262	53,272
14,473	363	.....	264	1,781	1,303	2,023	122	692
<b>930,177</b>	<b>22,554</b>	<b>21,088</b>	<b>24,793</b>	<b>109,114</b>	<b>85,843</b>	<b>65,701</b>	<b>27,384</b>	<b>53,964</b>
616,296	14,507	12,988	12,425	91,363	56,758	45,289	19,152	30,114
.....	.....	.....	.....	.....	.....	.....	.....	.....
105,710	1,727	906	829	2,470	7,834	6,568	1,584	7,604
63,049	3,223	2,207	1,583	1,767	8,129	5,518	1,730	6,695
.....	.....	940	4,520	.....	.....	.....	.....	1,522
48,220	2,174	1,962	1,628	3,169	4,056	3,441	1,885	3,058
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>833,275</b>	<b>21,631</b>	<b>19,003</b>	<b>20,985</b>	<b>98,769</b>	<b>76,777</b>	<b>60,816</b>	<b>24,351</b>	<b>48,993</b>
<b>96,902</b>	<b>923</b>	<b>2,085</b>	<b>3,898</b>	<b>10,345</b>	<b>9,066</b>	<b>4,885</b>	<b>3,033</b>	<b>4,971</b>
7,204	412	251	215	237	889	569	316	694

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Belleville	Blenheim	Bloomfield	Blyth	Bobcaygeon	Bolton
Population.....	29,162	3,134	661	737	1,273	2,074
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	2,323,931	309,091	60,387	68,578	223,325	177,077
Accumulated depreciation.....	522,766	56,744	20,123	13,183	54,884	29,755
Net fixed assets.....	1,801,165	252,347	40,264	55,395	168,441	147,322
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	700	17,347	3,599	8,807	8,911	2,162
Investment in government securities.....	.....	.....	6,992	9,728	.....	.....
Accounts receivable (Net).....	147,286	2,085	320	200	3,081	3,253
Total current assets.....	147,986	19,432	10,911	18,735	11,992	5,415
<b>OTHER ASSETS</b>						
Inventory of stores.....	41,576	1,106	465	58	4,109	1,548
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	169	700	.....	4,772	2,068
Total other assets.....	41,576	1,275	1,165	58	8,881	3,616
Equity in Ontario Hydro Systems.....	1,324,265	175,397	37,955	57,068	29,783	84,706
	<b>3,314,992</b>	<b>448,451</b>	<b>90,295</b>	<b>131,256</b>	<b>219,097</b>	<b>241,059</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	400,000	43,788	.....	.....	86,800	62,773
Accounts payable.....	31,471	40	380	314	864	4,309
Other.....	51,490	8,351	581	257	7,439	7,418
Total liabilities.....	482,961	52,179	961	571	95,103	74,500
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	1,324,265	175,397	37,955	57,067	29,783	84,706
Other.....	1,240	.....	.....	.....	.....	.....
Total reserves.....	1,325,505	175,397	37,955	57,067	29,783	84,706
<b>CAPITAL</b>						
Debentures redeemed.....	174,997	54,212	9,797	16,033	17,483	19,408
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	1,331,529	166,663	41,582	57,585	76,728	62,445
Total capital.....	1,506,526	220,875	51,379	73,618	94,211	81,853
	<b>3,314,992</b>	<b>448,451</b>	<b>90,295</b>	<b>131,256</b>	<b>219,097</b>	<b>241,059</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	1,068,049	111,466	19,748	37,775	59,160	74,976
Other.....	20,306	2,734	411	255	382	1,193
Total revenue.....	<b>1,088,355</b>	<b>114,200</b>	<b>20,159</b>	<b>38,030</b>	<b>59,542</b>	<b>76,169</b>
<b>EXPENSE</b>						
Power purchased.....	757,327	60,561	15,547	28,055	30,613	48,797
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	81,473	10,272	1,050	3,295	6,377	4,209
Administration.....	80,862	14,921	2,348	2,236	7,669	8,317
Fixed charges—interest and principal	16,283	9,844	.....	.....	8,014	5,428
—depreciation.....	55,061	8,245	1,795	1,894	6,700	4,374
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>991,006</b>	<b>103,843</b>	<b>20,740</b>	<b>35,480</b>	<b>59,373</b>	<b>71,125</b>
Net income or net expense.....	<b>97,349</b>	<b>10,357</b>	<b>581</b>	<b>2,550</b>	<b>169</b>	<b>5,044</b>
Number of customers.....	9,947	1,179	313	332	746	657



## Statements for the Year Ended December 31, 1961

Bothwell 825	Bowman- ville 7,242	Bracebridge 2,970	Bradford 2,358	Braeside 530	Brampton 19,185	Brantford 54,425	Brantford Twp. 7,824	Brechin 272
\$ 65,103 20,783	\$ 710,337 233,551	\$ 865,114 215,461	\$ 264,662 54,994	\$ 31,388 1,956	\$ 1,995,314 220,023	\$ 5,013,581 1,230,200	\$ 1,083,446 293,427	\$ 20,934 3,958
44,320	471,786	649,653	209,668	29,432	1,775,291	3,783,381	790,019	16,976
3,348	24,637	21,080	17,558	21,134	41,327	36,273	21,335	1,932
5,050	119,257	.....	8,000	.....	1,500	32,000	25,000	7,000
1,098	4,412	2,790	3,353	5,744	30,347	79,174	8,337	828
9,496	148,306	23,870	28,911	26,878	73,174	147,447	54,672	9,760
131	12,664	18,131	9,711	.....	38,249	101,481	21,132	.....
95	662	10,188	697	.....	6,722	2,161	189	192
226	13,326	28,319	10,408	.....	44,971	103,642	21,321	192
64,913	483,426	2,030	113,984	26,029	854,676	4,733,737	232,970	23,609
<b>118,955</b>	<b>1,116,844</b>	<b>703,872</b>	<b>362,971</b>	<b>82,339</b>	<b>2,748,112</b>	<b>8,768,207</b>	<b>1,098,982</b>	<b>50,537</b>
.....	.....	231,891	.....	1,225	772,000	499,689	464,730	.....
385	815	1,814	356	.....	7,100	7,089	1,367	95
103	2,994	835	2,458	217	46,497	73,793	20,154	180
488	3,809	234,540	2,814	1,442	825,597	580,571	486,251	275
64,913	483,426	2,030	113,984	26,029	854,676	4,733,737	232,970	23,609
.....	.....	.....	.....	867	.....	.....	.....	.....
64,913	483,426	2,030	113,984	26,029	855,543	4,733,737	232,970	23,609
5,534	71,000	273,909	23,351	4,775	158,937	944,994	96,486	2,664
.....	.....	.....	.....	.....	.....	.....	.....	.....
48,020	558,609	193,393	222,822	50,093	908,035	2,508,905	283,275	23,989
53,554	629,609	467,302	246,173	54,868	1,056,972	3,453,899	379,761	26,653
<b>118,955</b>	<b>1,116,844</b>	<b>703,872</b>	<b>362,971</b>	<b>82,339</b>	<b>2,748,112</b>	<b>8,768,207</b>	<b>1,098,982</b>	<b>50,537</b>
25,619	275,758	129,961	107,843	62,738	890,529	2,248,113	411,007	7,177
806	11,888	2,474	1,389	40	13,373	5,150	3,112	232
<b>26,425</b>	<b>287,646</b>	<b>132,435</b>	<b>109,232</b>	<b>62,778</b>	<b>903,902</b>	<b>2,253,263</b>	<b>414,119</b>	<b>7,409</b>
14,070	209,465	3,994	70,328	53,180	530,283	1,616,476	238,479	3,846
.....	.....	33,953	.....	.....	.....	.....	.....	.....
3,181	29,625	21,307	12,968	1,358	49,385	155,220	49,962	583
4,069	19,050	13,012	11,430	1,252	57,001	101,658	29,477	687
.....	.....	29,127	.....	442	62,637	64,157	43,107	.....
1,853	19,004	19,368	6,025	788	39,631	131,042	30,830	580
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>23,173</b>	<b>277,144</b>	<b>120,761</b>	<b>100,751</b>	<b>57,020</b>	<b>738,937</b>	<b>2,068,553</b>	<b>391,855</b>	<b>5,696</b>
<b>3,252</b>	<b>10,502</b>	<b>11,674</b>	<b>8,481</b>	<b>5,758</b>	<b>164,965</b>	<b>184,710</b>	<b>22,264</b>	<b>1,713</b>
330	2,471	1,155	833	162	6,135	17,184	2,298	100

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality .....	Bridgeport	Brigden	Brighton	Brockville	Brussels	Burford
Population .....	1,695	513	2,427	17,690	853	1,080
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	89,803	47,615	235,965	1,975,988	80,814	92,968
Accumulated depreciation .....	21,646	12,194	30,347	446,734	6,361	24,092
Net fixed assets.....	68,157	35,421	205,618	1,529,254	74,453	68,876
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	4,854	5,378	3,039	.....	8,832	3,820
Investment in government securities	5,000	3,042	.....	12,000	.....	3,500
Accounts receivable (Net).....	1,238	1,152	2,128	35,998	1,670	1,042
Total current assets.....	11,092	9,572	5,167	47,998	10,502	8,362
<b>OTHER ASSETS</b>						
Inventory of stores.....	22	28	7,760	33,300	183	148
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	69	.....	1,980	3,374	.....	.....
Total other assets.....	91	28	9,740	36,674	183	148
Equity in Ontario Hydro Systems....	52,266	43,937	97,030	1,138,976	67,844	72,853
	<b>131,606</b>	<b>88,958</b>	<b>317,555</b>	<b>2,752,902</b>	<b>152,982</b>	<b>150,239</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	15,905	.....	37,900	358,500	7,000	10,331
Accounts payable.....	.....	249	952	172,739	7,367	1
Other.....	1,881	206	3,375	25,693	1,205	1,246
Total liabilities.....	17,786	455	42,227	556,932	15,572	11,578
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	52,266	43,937	97,030	1,138,976	67,844	72,853
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	52,266	43,937	97,030	1,138,976	67,844	72,853
<b>CAPITAL</b>						
Debentures redeemed.....	15,623	8,000	27,100	198,770	21,000	10,523
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	45,931	36,566	151,198	858,224	48,566	55,285
Total capital.....	61,554	44,566	178,298	1,056,994	69,566	65,808
	<b>131,606</b>	<b>88,958</b>	<b>317,555</b>	<b>2,752,902</b>	<b>152,982</b>	<b>150,239</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	48,444	16,011	78,900	755,351	38,729	47,117
Other.....	278	112	1,056	19,688	245	384
<b>Total revenue.....</b>	<b>48,722</b>	<b>16,123</b>	<b>79,956</b>	<b>775,039</b>	<b>38,974</b>	<b>47,501</b>
<b>EXPENSE</b>						
Power purchased.....	33,563	9,325	52,585	507,163	28,030	31,171
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	2,547	1,669	8,209	68,317	2,779	3,596
Administration.....	5,972	1,725	8,804	69,118	2,512	3,206
Fixed charges—interest and principal	1,490	.....	3,440	39,979	808	1,215
—depreciation.....	2,703	1,407	5,366	44,831	2,006	2,450
—other.....	.....	.....	.....	.....	.....	.....
<b>Total expense.....</b>	<b>46,275</b>	<b>14,126</b>	<b>78,404</b>	<b>729,408</b>	<b>36,135</b>	<b>41,638</b>
<b>Net income or net expense.....</b>	<b>2,447</b>	<b>1,997</b>	<b>1,552</b>	<b>45,631</b>	<b>2,839</b>	<b>5,863</b>
Number of customers.....	461	212	1,001	6,036	377	411

## Statements for the Year Ended December 31, 1961

Burgessville	Burk's Falls	Burlington	Caledonia	Campbell- ford	Campbell- ville	Cannington	Cardinal	Carleton Place
260	914	46,374	2,265	3,428	216	1,024	1,991	4,699
\$ 24,501 7,348	\$ 84,991 15,117	\$ 4,029,364 686,044	\$ 172,351 35,705	\$ 690,731 147,006	\$ 19,827 5,269	\$ 73,704 19,361	\$ 84,454 13,903	\$ 292,368 69,394
17,153	69,874	3,343,320	136,646	543,725	14,558	54,343	70,551	222,974
2,609	1,636	112,002	2,613	7,309	4,435	12,140	2,682	.....
1,500	4,900	37,500	.....	.....	2,406	14,000	1,500	15,000
345	1,461	70,725	2,693	7,165	1,363	830	326	8,062
4,454	7,997	220,227	5,306	14,474	8,204	26,970	4,508	23,062
.....	285	37,566	446	10,735	.....	20	.....	7,105
147	790	88,485	126	4,346	10	.....	.....	100
147	1,075	126,051	572	15,081	10	20	.....	7,205
23,518	18,614	724,793	107,023	3,760	15,311	69,554	64,190	389,624
<b>45,272</b>	<b>97,560</b>	<b>4,414,391</b>	<b>249,547</b>	<b>577,040</b>	<b>38,083</b>	<b>150,887</b>	<b>139,249</b>	<b>642,865</b>
.....	8,514	1,888,013	2,000	101,000	.....	.....	.....	13,100
55	578	5,728	38	34,125	3,370	445	47	7,383
.....	98	146,678	2,495	7,268	.....	390	135	3,529
55	9,190	2,040,419	4,533	142,393	3,370	835	182	24,012
23,518	18,614	724,793	107,023	3,760	15,311	69,554	64,190	389,624
.....	.....	.....	.....	.....	.....	.....	.....	.....
23,518	18,614	724,793	107,023	3,760	15,311	69,554	64,190	389,624
3,500	26,486	357,378	13,525	4,000	5,448	14,532	11,014	60,197
.....	.....	.....	.....	.....	.....	.....	.....	.....
18,199	43,270	1,291,801	124,466	426,887	13,954	65,966	63,863	169,032
21,699	69,756	1,649,179	137,991	430,887	19,402	80,498	74,877	229,229
<b>45,272</b>	<b>97,560</b>	<b>4,414,391</b>	<b>249,547</b>	<b>577,040</b>	<b>38,083</b>	<b>150,887</b>	<b>139,249</b>	<b>642,865</b>
11,569	39,699	2,133,385	67,150	121,219	9,163	38,317	46,364	184,476
123	598	21,536	173	1,554	191	436	204	989
<b>11,692</b>	<b>40,297</b>	<b>2,154,921</b>	<b>67,323</b>	<b>122,773</b>	<b>9,354</b>	<b>38,753</b>	<b>46,568</b>	<b>185,465</b>
7,750	25,994	1,226,252	38,909	30,278	6,479	22,605	35,128	129,016
.....	.....	.....	.....	24,409	.....	.....	.....	.....
594	3,094	126,528	6,823	16,618	939	2,138	3,950	16,110
586	3,256	129,379	7,769	27,128	586	3,060	3,448	25,377
.....	3,039	184,453	614	8,448	.....	.....	.....	1,554
735	2,175	94,564	4,424	12,621	555	2,231	2,272	7,614
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>9,665</b>	<b>37,558</b>	<b>1,761,176</b>	<b>58,539</b>	<b>119,502</b>	<b>8,559</b>	<b>30,034</b>	<b>44,798</b>	<b>179,671</b>
<b>2,027</b>	<b>2,739</b>	<b>393,745</b>	<b>8,784</b>	<b>3,271</b>	<b>795</b>	<b>8,719</b>	<b>1,770</b>	<b>5,794</b>
100	350	13,972	820	1,357	93	450	666	1,737

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Casselman	Cayuga	Chalk River	Chatham	Chatsworth	Chesley
Population.....	1,331	910	1,062	29,332	407	1,650
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	93,161	95,080	71,845	3,129,570	30,927	116,555
Accumulated depreciation.....	12,193	20,637	15,453	748,230	10,238	39,720
Net fixed assets.....	80,968	74,443	56,392	2,381,340	20,689	76,835
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	7,580	538	3,434	69,736	9,542	15,201
Investment in government securities	14,000	6,000	.....	140,000	6,000	17,000
Accounts receivable (Net).....	85	324	3,625	166,515	579	471
Total current assets.....	21,665	6,862	7,059	376,251	16,121	32,672
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	252	.....	93,612	.....	1,535
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	4,838	.....	2,633	44,646	.....	258
Total other assets.....	4,838	252	2,633	138,258	.....	1,793
Equity in Ontario Hydro Systems.....	17,829	48,063	12,598	1,970,103	26,934	162,216
	<b>125,300</b>	<b>129,620</b>	<b>78,682</b>	<b>4,865,952</b>	<b>63,744</b>	<b>273,516</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	45,500	.....	46,500	623,226	.....	.....
Accounts payable.....	557	198	.....	106,168	81	693
Other.....	35	1,215	340	37,753	163	.....
Total liabilities.....	46,092	1,413	46,840	767,147	244	693
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	17,829	48,063	12,598	1,970,103	26,934	162,216
Other.....	.....	.....	.....	74,806	.....	.....
Total reserves.....	17,829	48,063	12,598	2,044,909	26,934	162,216
<b>CAPITAL</b>						
Debentures redeemed.....	24,500	20,000	8,500	896,774	5,014	24,410
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	36,879	60,144	10,744	1,157,122	31,552	86,197
Total capital.....	61,379	80,144	19,244	2,053,896	36,566	110,607
	<b>125,300</b>	<b>129,620</b>	<b>78,682</b>	<b>4,865,952</b>	<b>63,744</b>	<b>273,516</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	43,663	31,135	25,188	1,527,603	14,974	63,660
Other.....	719	364	92	17,185	367	993
Total revenue.....	<b>44,382</b>	<b>31,499</b>	<b>25,280</b>	<b>1,544,788</b>	<b>15,341</b>	<b>64,653</b>
<b>EXPENSE</b>						
Power purchased.....	28,376	19,267	17,557	744,725	10,786	45,111
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	1,972	4,118	1,566	295,505	683	5,687
Administration.....	3,910	4,954	1,841	234,332	1,087	6,687
Fixed charges—interest and principal	5,430	.....	4,668	88,741	.....	.....
—depreciation.....	2,390	2,705	2,012	72,641	933	3,594
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>42,078</b>	<b>31,044</b>	<b>27,644</b>	<b>1,435,944</b>	<b>13,489</b>	<b>61,079</b>
Net income or net expense.....	<b>2,304</b>	<b>455</b>	<b>2,364</b>	<b>108,844</b>	<b>1,852</b>	<b>3,574</b>
Number of customers.....	384	374	291	9,673	169	732



## Statements for the Year Ended December 31, 1961

Chesterville	Chippawa	Clifford	Clinton	Cobden	Cobourg	Colborne	Coldwater	Collingwood
1,252	3,182	559	3,227	878	9,556	1,357	750	8,134
\$ 89,598 17,807	\$ 224,491 38,559	\$ 48,064 10,463	\$ 314,024 62,592	\$ 72,810 10,292	\$ 1,011,714 243,297	\$ 104,905 16,366	\$ 58,524 13,920	\$ 610,349 127,490
71,791	185,932	37,601	251,432	62,518	768,417	88,539	44,604	482,859
13,411	12,207	6,708	12,805	2,020	64,861	130	17,564	11,284
6,000	.....	6,034	.....	6,000	10,000	.....	12,500	53,447
4,822	4,732	227	1,132	480	36,502	8,886	1,789	12,150
24,233	16,939	12,969	13,937	8,500	111,363	9,016	31,853	76,881
.....	1,326	17	6,838	.....	15,550	15,538	.....	19,034
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	987	.....	257	330	410	71	189	1,035
.....	2,313	17	7,095	330	15,960	15,609	189	20,069
121,471	89,103	38,830	226,988	31,010	530,495	52,930	56,980	619,224
<b>217,495</b>	<b>294,287</b>	<b>89,417</b>	<b>499,452</b>	<b>102,358</b>	<b>1,426,235</b>	<b>166,094</b>	<b>133,626</b>	<b>1,199,033</b>
.....	60,800	5,550	51,000	.....	.....	.....	.....	.....
1,000	2,712	109	651	.....	4,008	11,434	38	259
141	2,796	336	10,022	348	13,034	1,784	275	7,459
1,141	66,308	5,995	61,673	348	17,042	13,218	313	7,718
121,471	89,103	38,830	226,988	31,010	530,495	52,930	56,980	619,224
.....	.....	.....	.....	.....	.....	.....	.....	.....
121,471	89,103	38,830	226,988	31,010	530,495	52,930	56,980	619,224
5,889	17,550	9,379	70,673	4,949	105,994	12,195	6,867	38,183
.....	.....	.....	.....	.....	.....	.....	.....	.....
88,994	121,326	35,213	140,118	66,051	772,704	87,751	69,466	533,908
94,883	138,876	44,592	210,791	71,000	878,698	99,946	76,333	572,091
<b>217,495</b>	<b>294,287</b>	<b>89,417</b>	<b>499,452</b>	<b>102,358</b>	<b>1,426,235</b>	<b>166,094</b>	<b>133,626</b>	<b>1,199,033</b>
71,250	89,580	21,608	137,087	28,508	453,600	55,503	28,311	307,947
445	346	783	1,680	466	3,506	2,946	566	3,902
<b>71,695</b>	<b>89,926</b>	<b>22,391</b>	<b>138,767</b>	<b>28,974</b>	<b>457,106</b>	<b>58,449</b>	<b>28,877</b>	<b>311,849</b>
55,037	53,691	16,047	90,681	22,376	313,475	36,351	19,175	213,857
.....	.....	.....	.....	.....	.....	.....	.....	.....
4,037	9,695	822	14,767	2,862	25,799	3,829	2,291	26,005
5,817	6,219	1,457	10,564	2,604	39,968	6,737	2,712	25,258
.....	6,461	567	6,523	.....	.....	262	.....	.....
2,401	5,876	1,210	7,475	1,882	26,074	2,211	1,706	14,658
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>67,292</b>	<b>81,942</b>	<b>20,103</b>	<b>130,010</b>	<b>29,724</b>	<b>405,316</b>	<b>49,390</b>	<b>25,884</b>	<b>279,778</b>
<b>4,403</b>	<b>7,984</b>	<b>2,288</b>	<b>8,757</b>	<b>750</b>	<b>51,790</b>	<b>9,059</b>	<b>2,993</b>	<b>32,071</b>
457	1,049	225	1,246	395	3,515	578	274	3,114

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Comber	Cookstown	Cottam	Courtright	Creemore	Dashwood
Population.....	583	643	659	549	877	416
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	57,659	53,778	54,629	29,536	55,685	27,823
Accumulated depreciation.....	14,103	10,416	15,287	5,902	6,976	4,769
Net fixed assets.....	43,556	43,362	39,342	23,634	48,709	23,054
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	6,207	2,721	5,796	772	7,046	6,303
Investment in government securities.....	.....	5,000	3,000	.....	5,000	.....
Accounts receivable (Net).....	393	1,436	.....	203	1,259	50
Total current assets.....	6,600	9,157	8,796	975	13,305	6,353
<b>OTHER ASSETS</b>						
Inventory of stores.....	12	.....	95	16	.....	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	566	.....	108	.....	217	183
Total other assets.....	578	.....	203	16	217	183
Equity in Ontario Hydro Systems.....	64,980	29,898	25,083	23,952	52,349	38,345
	<b>115,714</b>	<b>82,417</b>	<b>73,424</b>	<b>48,577</b>	<b>114,580</b>	<b>67,935</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	1,918	.....	1,500	.....	.....	.....
Accounts payable.....	598	73	73	1,638	280	883
Other.....	554	805	828	420	611	.....
Total liabilities.....	3,070	878	2,401	2,058	891	883
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	64,980	29,898	25,084	23,952	52,349	38,345
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	64,980	29,898	25,084	23,952	52,349	38,345
<b>CAPITAL</b>						
Debentures redeemed.....	10,782	12,001	12,500	8,138	2,824	3,400
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	36,882	39,640	33,439	14,429	58,516	25,307
Total capital.....	47,664	51,641	45,939	22,567	61,340	28,707
	<b>115,714</b>	<b>82,417</b>	<b>73,424</b>	<b>48,577</b>	<b>114,580</b>	<b>67,935</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	21,709	18,819	17,721	10,518	28,760	17,279
Other.....	46	454	90	115	373	5
Total revenue.....	<b>21,755</b>	<b>19,273</b>	<b>17,811</b>	<b>10,633</b>	<b>29,133</b>	<b>17,284</b>
<b>EXPENSE</b>						
Power purchased.....	10,844	14,277	10,724	7,227	17,355	11,255
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	2,363	1,620	896	1,027	1,607	1,149
Administration.....	2,729	1,245	1,904	1,016	1,909	1,707
Fixed charges—interest and principal	419	.....	579	144	.....	.....
—depreciation.....	1,679	1,518	1,660	832	1,452	774
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>18,034</b>	<b>18,660</b>	<b>15,763</b>	<b>10,246</b>	<b>22,323</b>	<b>14,885</b>
Net income or net expense.....	<b>3,721</b>	<b>613</b>	<b>2,048</b>	<b>387</b>	<b>6,810</b>	<b>2,399</b>
Number of customers.....	234	250	246	195	364	184

## Statements for the Year Ended December 31, 1961

Deep River	Delaware	Delhi	Deseronto	Dorchester	Drayton	Dresden	Drumbo	Dublin
5,365	409	3,447	1,785	914	633	2,245	400	275
\$ 603,154 127,490	\$ 29,365 8,885	\$ 330,532 80,129	\$ 135,818 39,736	\$ 61,200 15,494	\$ 59,582 9,590	\$ 207,960 45,347	\$ 31,063 10,878	\$ 38,837 8,326
475,664	20,480	250,403	96,082	45,706	49,992	162,613	20,185	30,511
64,068	2,369	30,160	432	1,940	1,730	6,909	2,256	1,147
.....	.....	10,000	15,000	1,500	6,000	21,150	5,500	600
7,146	372	2,530	3,264	544	559	4,541	977	371
71,214	2,741	42,690	18,696	3,984	8,289	32,600	8,733	2,118
8,366	.....	12,002	9,532	.....	130	10,448	.....	.....
8,288	.....	.....	.....	.....	.....	231	.....	83
16,654	.....	12,002	9,532	.....	130	10,679	.....	83
38,887	21,042	121,332	67,137	36,999	52,759	151,853	30,949	24,099
<b>602,419</b>	<b>44,263</b>	<b>426,427</b>	<b>191,447</b>	<b>86,689</b>	<b>111,170</b>	<b>357,745</b>	<b>59,867</b>	<b>56,811</b>
211,073	.....	.....	.....	2,134	.....	16,867	.....	.....
3,513	2	234	346	158	726	315	.....	1,792
11,399	88	4,996	1,242	553	376	3,235	152	140
225,985	90	5,230	1,588	2,845	1,102	20,417	152	1,932
38,887	21,042	121,332	67,137	36,999	52,759	151,853	30,949	24,099
38,887	21,042	121,332	67,137	36,999	52,759	151,853	30,949	24,099
19,927	4,000	85,000	15,000	5,166	9,500	34,556	4,500	6,200
317,620	19,131	214,865	107,722	41,679	47,809	150,919	24,266	24,580
337,547	23,131	299,865	122,722	46,845	57,309	185,475	28,766	30,780
<b>602,419</b>	<b>44,263</b>	<b>426,427</b>	<b>191,447</b>	<b>86,689</b>	<b>111,170</b>	<b>357,745</b>	<b>59,867</b>	<b>56,811</b>
215,997	14,760	151,793	56,263	24,804	24,112	100,969	13,016	15,195
4,629	268	2,591	1,867	229	318	2,509	485	45
<b>220,626</b>	<b>15,028</b>	<b>154,384</b>	<b>58,130</b>	<b>25,033</b>	<b>24,430</b>	<b>103,478</b>	<b>13,501</b>	<b>15,240</b>
123,617	9,589	98,930	43,194	17,448	15,243	60,646	9,741	9,917
.....	.....	.....	.....	.....	.....	.....	.....	.....
18,205	1,047	12,610	5,698	1,996	2,727	15,200	776	730
17,316	1,739	12,333	6,490	1,508	1,806	12,585	1,293	974
18,793	.....	.....	.....	241	.....	3,840	.....	40
15,543	904	8,076	3,699	1,801	1,627	4,437	1,003	1,111
193,474	13,279	131,949	59,081	22,994	21,403	96,708	12,813	12,772
27,152	1,749	22,435	951	2,039	3,027	6,770	688	2,468
1,447	135	1,411	625	333	275	903	171	116

Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Dundalk	Dundas	Dunnville	Durham	Dutton	East York Twp.
Population.....	902	13,253	5,343	2,101	803	69,627
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	65,564	1,431,303	459,390	170,811	49,318	4,442,939
Accumulated depreciation.....	13,185	195,925	85,733	27,200	15,802	794,681
Net fixed assets.....	52,379	1,235,378	373,657	143,611	33,516	3,648,258
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	7,819	27,519	8,945	24,454	2,840	83,541
Investment in government securities	6,500	9,000	.....	4,000	4,500	300,000
Accounts receivable (Net).....	729	7,140	27,463	1,727	758	149,967
Total current assets.....	15,048	43,659	36,408	30,181	8,098	533,508
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	12,360	34,187	1,615	49	35,335
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	114,168
Miscellaneous.....	.....	4,845	1,546	321	.....	6,233
Total other assets.....	.....	17,205	35,733	1,936	49	155,736
Equity in Ontario Hydro Systems.....	63,352	660,366	350,240	145,100	76,353	2,388,971
	<b>130,779</b>	<b>1,956,608</b>	<b>796,038</b>	<b>320,828</b>	<b>118,016</b>	<b>6,726,473</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	672,300	49,210	.....	.....	562,017
Accounts payable.....	920	41,621	942	1,482	180	205,025
Other.....	275	33,345	9,717	1,203	462	26,300
Total liabilities.....	1,195	747,266	59,869	2,685	642	793,342
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	63,352	660,366	350,240	145,100	76,353	2,388,971
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	63,352	660,366	350,240	145,100	76,353	2,388,971
<b>CAPITAL</b>						
Debentures redeemed.....	5,727	101,245	91,290	25,324	3,407	714,175
Local sinking fund.....	.....	.....	.....	.....	.....	114,168
Accumulated net income invested in plant or held as working funds.	60,505	447,731	294,639	147,719	32,614	2,715,817
Total capital.....	66,232	548,976	385,929	173,043	41,021	3,544,160
	<b>130,779</b>	<b>1,956,608</b>	<b>796,038</b>	<b>320,828</b>	<b>118,016</b>	<b>6,726,473</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	35,940	502,723	217,494	95,839	24,901	1,969,971
Other.....	233	3,329	824	1,106	225	77,229
Total revenue.....	<b>36,173</b>	<b>506,052</b>	<b>218,318</b>	<b>96,945</b>	<b>25,126</b>	<b>2,047,200</b>
<b>EXPENSE</b>						
Power purchased.....	24,608	315,231	147,160	57,531	17,046	1,354,211
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	3,705	61,512	30,852	11,800	3,908	174,447
Administration.....	2,269	27,944	16,410	7,827	2,297	182,729
Fixed charges—interest and principal	.....	41,333	6,054	.....	.....	77,546
—depreciation.....	1,761	30,748	10,551	4,080	1,519	104,097
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>32,343</b>	<b>476,768</b>	<b>211,027</b>	<b>81,233</b>	<b>24,770</b>	<b>1,893,030</b>
Net income or net expense.....	<b>3,830</b>	<b>29,284</b>	<b>7,291</b>	<b>15,707</b>	<b>356</b>	<b>154,170</b>
Number of customers.....	437	4,208	1,959	849	347	23,529



Statements for the Year Ended December 31, 1961

Eganville	Elmira	Elmvale	Elmwood	Elora	Embro	Erieau	Erie Beach	Erin
1,451	3,284	938	450	1,493	542	487	154	1,021
\$ 160,639 48,946	\$ 354,231 81,644	\$ 73,231 21,587	\$ 24,885 7,307	\$ 124,711 37,329	\$ 51,735 16,383	\$ 83,884 15,431	\$ 24,717 2,160	\$ 63,970 8,592
111,693	272,587	51,644	17,578	87,382	35,352	68,453	22,557	55,378
21,728	11,535	4,772	722	3,869	6,503	8,515	.....	2,591
15,000	.....	15,948	7,000	3,690	6,000	7,690	.....	5,087
370	1,504	1,014	193	1,254	355	936	151	764
37,098	13,039	21,734	7,915	8,813	12,858	17,141	151	8,442
3,303	827	2,427	.....	198	.....	30	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,993	203	209	.....	.....	.....	1,550	517	258
5,296	1,030	2,636	.....	198	.....	1,580	517	314
12,127	371,355	63,006	22,113	146,170	48,002	41,775	7,549	18,714
<b>166,214</b>	<b>658,011</b>	<b>139,020</b>	<b>47,606</b>	<b>242,563</b>	<b>96,212</b>	<b>128,949</b>	<b>30,774</b>	<b>82,848</b>
35,689	.....	.....	.....	4,700	.....	9,778	2,774	3,625
104	2,411	337	.....	31	2,238	.....	3,402	914
.....	2,616	600	45	1,632	55	1,055	243	717
35,793	5,027	937	45	6,363	2,293	10,833	6,419	5,256
12,127	371,355	63,006	22,113	146,170	48,002	41,775	7,549	18,714
.....	.....	.....	.....	.....	.....	.....	.....	.....
12,127	371,355	63,006	22,113	146,170	48,002	41,775	7,549	18,714
64,311	37,169	6,544	6,106	15,162	7,500	12,105	5,526	10,875
.....	.....	.....	.....	.....	.....	.....	.....	.....
53,983	244,460	68,533	19,342	74,868	38,417	64,236	11,280	48,003
118,294	281,629	75,077	25,448	90,030	45,917	76,341	16,806	58,878
<b>166,214</b>	<b>658,011</b>	<b>139,020</b>	<b>47,606</b>	<b>242,563</b>	<b>96,212</b>	<b>128,949</b>	<b>30,774</b>	<b>82,848</b>
61,485	200,876	32,714	9,704	56,270	22,921	28,991	5,724	35,351
686	3,518	1,031	414	165	752	728	.....	485
<b>62,171</b>	<b>204,394</b>	<b>33,745</b>	<b>10,118</b>	<b>56,435</b>	<b>23,673</b>	<b>29,719</b>	<b>5,724</b>	<b>35,836</b>
24,034	158,168	21,690	8,002	33,847	14,701	15,715	2,724	23,493
12,012	.....	.....	.....	.....	.....	.....	.....	.....
4,407	12,497	2,671	710	8,019	2,481	3,643	1,142	2,635
5,885	13,751	3,794	1,113	5,693	2,278	3,377	942	3,540
7,035	.....	.....	.....	615	.....	1,898	655	866
3,873	9,231	2,104	739	3,380	1,804	2,394	668	1,593
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>57,246</b>	<b>193,647</b>	<b>30,259</b>	<b>10,564</b>	<b>51,554</b>	<b>21,264</b>	<b>27,027</b>	<b>6,131</b>	<b>32,127</b>
<b>4,925</b>	<b>10,747</b>	<b>3,486</b>	<b>446</b>	<b>4,881</b>	<b>2,409</b>	<b>2,692</b>	<b>407</b>	<b>3,709</b>
566	1,177	404	135	541	234	359	135	412

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Essex	Etobicoke Twp.	Exeter	Fergus	Finch	Flesherton
Population.....	3,412	152,204	3,012	3,928	382	523
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>						
Plant and facilities at cost.....	\$ 279,390	\$ 16,513,386	\$ 272,386	\$ 328,875	\$ 42,570	\$ 36,144
Accumulated depreciation.....	78,661	2,607,466	68,694	68,565	10,250	12,537
Net fixed assets.....	200,729	13,905,920	203,692	260,310	32,320	23,607
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	14,776	815,846	250	19,026	963	1,566
Investment in government securities.....	.....	134,938	5,000	15,769	6,000	20,000
Accounts receivable (Net).....	1,450	327,563	2,942	3,169	493	187
Total current assets.....	16,226	1,278,347	8,192	37,964	7,456	21,753
<b>OTHER ASSETS</b>						
Inventory of stores.....	7,162	292,185	1,238	230	.....	.....
Sinking fund on local debentures.....	.....	798,180	.....	.....	.....	.....
Miscellaneous.....	1,006	276,207	79	550	.....	260
Total other assets.....	8,168	1,366,572	1,317	780	.....	260
Equity in Ontario Hydro Systems....	166,669	3,878,349	223,407	346,489	25,320	31,522
	<b>391,792</b>	<b>20,429,188</b>	<b>436,608</b>	<b>645,543</b>	<b>65,096</b>	<b>77,142</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	18,200	7,844,802	.....	21,000	.....	.....
Accounts payable.....	194	138,359	1,035	123	8	245
Other.....	2,422	387,129	2,635	3,834	241	148
Total liabilities.....	20,816	8,370,290	3,670	24,957	249	393
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	166,669	3,878,349	223,407	346,489	25,320	31,522
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	166,669	3,878,349	223,407	346,489	25,320	31,522
<b>CAPITAL</b>						
Debentures redeemed.....	33,257	1,672,296	20,000	53,961	7,000	5,831
Local sinking fund.....	.....	798,180	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	171,050	5,710,073	189,531	220,136	32,527	39,396
Total capital.....	204,307	8,180,549	209,531	274,097	39,527	45,227
	<b>391,792</b>	<b>20,429,188</b>	<b>436,608</b>	<b>645,543</b>	<b>65,096</b>	<b>77,142</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	113,658	7,463,658	142,454	207,104	14,905	16,314
Other.....	1,031	55,804	3,202	1,423	406	1,008
Total revenue.....	<b>114,689</b>	<b>7,519,462</b>	<b>145,656</b>	<b>208,527</b>	<b>15,311</b>	<b>17,322</b>
<b>EXPENSE</b>						
Power purchased.....	62,038	4,605,137	95,325	143,305	11,047	13,591
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	18,458	530,239	10,791	22,173	1,004	1,337
Administration.....	14,303	383,658	16,349	15,425	1,736	1,186
Fixed charges—interest and principal	3,368	746,278	.....	2,823	.....	.....
—depreciation.....	7,374	352,123	7,435	8,105	1,242	1,140
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>105,541</b>	<b>6,617,435</b>	<b>129,900</b>	<b>191,831</b>	<b>15,029</b>	<b>17,254</b>
Net income or net expense.....	<b>9,148</b>	<b>902,027</b>	<b>15,756</b>	<b>16,696</b>	<b>282</b>	<b>68</b>
Number of customers.....	1,220	52,053	1,258	1,373	178	255

## Statements for the Year Ended December 31, 1961

Fonthill	Forest	Forest Hill	Frankford	Galt	George-town	Glencoe	Goderich	Grand Bend
2,404	2,134	20,266	1,602	27,367	10,311	1,139	6,360	874
\$ 164,583 28,691	\$ 159,605 67,078	\$ 1,815,173 548,000	\$ 101,094 14,046	\$ 3,016,267 986,089	\$ 951,595 151,622	\$ 118,566 35,499	\$ 694,337 180,518	\$ 157,727 37,420
135,892	92,527	1,267,173	87,048	2,030,178	799,973	83,067	513,819	120,307
1,748	2,285	81,579	10,169	42,604	16,911	2,223	59,585	5,085
.....	47,901	247,793	.....	90,000	4,000	10,000	90,324	.....
2,026	1,711	20,655	1,146	25,659	498	2,811	16,870	4,841
3,774	51,897	350,027	11,315	158,263	21,409	15,034	166,779	9,926
36	6,546	45,852	.....	75,738	35,457	372	8,704	185
1,175	196	15,111	.....	1,092	795	.....	1,998	7,819
1,211	6,742	60,963	.....	76,830	36,252	372	10,702	8,004
64,579	170,611	1,171,387	23,687	2,537,180	556,009	83,834	569,243	46,022
<b>205,456</b>	<b>321,777</b>	<b>2,849,550</b>	<b>122,050</b>	<b>4,802,451</b>	<b>1,413,643</b>	<b>182,307</b>	<b>1,260,543</b>	<b>184,259</b>
12,300	.....	.....	.....	87,000	299,281	.....	74,500	68,570
419	203	6,090	531	887	1,425	4,127	613	186
2,225	1,268	41,489	1,624	59,065	36,030	580	17,690	6,473
14,944	1,471	47,579	2,155	146,952	336,736	4,707	92,803	75,229
64,579	170,611	1,171,387	23,687	2,537,180	556,009	83,834	569,243	46,022
.....	.....	.....	.....	.....	2,040	.....	.....	.....
64,579	170,611	1,171,387	23,687	2,537,180	558,049	83,834	569,243	46,022
49,048	23,357	358,126	20,000	730,298	93,126	20,113	138,460	22,430
.....	.....	.....	.....	.....	.....	.....	.....	.....
76,885	126,338	1,272,458	76,208	1,388,021	425,732	73,653	460,037	40,578
125,933	149,695	1,630,584	96,208	2,118,319	518,858	93,766	598,497	63,008
<b>205,456</b>	<b>321,777</b>	<b>2,849,550</b>	<b>122,050</b>	<b>4,802,451</b>	<b>1,413,643</b>	<b>182,307</b>	<b>1,260,543</b>	<b>184,259</b>
74,255	76,939	774,421	40,725	1,325,181	440,732	39,918	351,830	72,712
2,109	5,676	12,919	716	14,310	2,697	505	6,025	880
<b>76,364</b>	<b>82,615</b>	<b>787,340</b>	<b>41,441</b>	<b>1,339,491</b>	<b>443,429</b>	<b>40,423</b>	<b>357,855</b>	<b>73,592</b>
48,235	61,056	531,614	25,486	902,432	311,304	25,321	233,566	33,858
.....	.....	.....	.....	.....	.....	.....	.....	.....
4,466	10,809	78,452	3,499	137,784	20,806	4,947	19,556	5,782
6,037	8,335	73,749	4,441	73,599	33,926	6,057	28,935	10,569
4,582	.....	.....	.....	34,207	29,330	.....	9,472	8,130
4,384	3,957	50,302	2,641	82,931	22,517	3,422	17,715	4,153
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>67,704</b>	<b>84,157</b>	<b>734,117</b>	<b>36,067</b>	<b>1,230,953</b>	<b>417,883</b>	<b>39,747</b>	<b>309,244</b>	<b>62,492</b>
<b>8,660</b>	<b>1,542</b>	<b>53,223</b>	<b>5,374</b>	<b>108,538</b>	<b>25,546</b>	<b>676</b>	<b>48,611</b>	<b>11,100</b>
801	917	7,922	599	9,158	3,322	486	2,399	834

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality .....	Grand Valley 697	Granton 291	Gravenhurst 3,177	Grimsby 5,155	Guelph 39,011	Hagersville 2,066
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost .....	53,906	17,870	235,885	346,919	4,283,098	154,569
Accumulated depreciation .....	17,385	2,998	63,790	59,411	605,118	39,831
Net fixed assets .....	36,521	14,872	172,095	287,508	3,677,950	114,738
<b>CURRENT ASSETS</b>						
Cash on hand and in bank .....	8,248	4,063	3,101	150	64,455	7,286
Investment in government securities .....	5,500		27,000			18,000
Accounts receivable (Net) .....	206	311	3,045	980	49,489	335
Total current assets .....	13,954	4,374	33,146	1,130	113,944	25,621
<b>OTHER ASSETS</b>						
Inventory of stores .....			6,509		57,334	105
Sinking fund on local debentures .....						
Miscellaneous .....	390	41		2,119	19,031	197
Total other assets .....	390	41	6,509	2,119	76,365	302
Equity in Ontario Hydro Systems .....	58,038	27,681	219,991	135,758	3,054,783	297,021
	<b>108,903</b>	<b>46,968</b>	<b>431,741</b>	<b>426,515</b>	<b>6,923,042</b>	<b>437,682</b>
<b>LIABILITIES</b>						
Debentures outstanding .....		710		43,000	1,803,000	
Accounts payable .....	13		952	11,682	45,006	3
Other .....	75	10	2,854	5,081	92,436	1,595
Total liabilities .....	88	720	3,806	59,763	1,940,442	1,598
<b>RESERVES</b>						
Equity in Ontario Hydro Systems .....	58,038	27,681	219,991	135,758	3,054,783	297,021
Other .....						
Total reserves .....	58,038	27,681	219,991	135,758	3,054,783	297,021
<b>CAPITAL</b>						
Debentures redeemed .....	10,794	5,933	44,279	87,344	464,745	8,000
Local sinking fund .....						
Accumulated net income invested in plant or held as working funds .....	39,983	12,634	163,665	143,650	1,463,072	131,063
Total capital .....	50,777	18,567	207,944	230,994	1,927,817	139,063
	<b>108,903</b>	<b>46,968</b>	<b>431,741</b>	<b>426,515</b>	<b>6,923,042</b>	<b>437,682</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy .....	28,390	8,480	115,077	164,955	2,020,180	97,153
Other .....	173	15	2,791	1,523	16,773	835
Total revenue .....	<b>28,563</b>	<b>8,495</b>	<b>117,868</b>	<b>166,478</b>	<b>2,036,953</b>	<b>97,988</b>
<b>EXPENSE</b>						
Power purchased .....	19,312	4,082	93,356	113,768	1,270,380	64,654
Local generation .....						
Operation and maintenance .....	1,555	291	11,249	15,116	205,384	15,172
Administration .....	2,164	1,343	10,368	19,759	176,177	7,632
Fixed charges—interest and principal .....		308		4,307	166,274	
—depreciation .....	1,697	491	6,174	8,618	96,161	4,246
—other .....						
Total expense .....	<b>24,728</b>	<b>6,515</b>	<b>121,147</b>	<b>161,568</b>	<b>1,914,376</b>	<b>91,704</b>
Net income or net expense .....	<b>3,835</b>	<b>1,980</b>	<b>3,279</b>	<b>4,910</b>	<b>122,577</b>	<b>6,284</b>
Number of customers .....	324	122	1,351	1,871	12,475	773



## Statements for the Year Ended December 31, 1961

Hamilton	Hanover	Harriston	Harrow	Hastings	Havelock	Hawkes- bury	Hensall	Hespeler
264,130	4,378	1,632	1,729	894	1,277	8,583	927	4,546
\$ 24,250,835 2,340,106	\$ 360,371 125,293	\$ 168,506 38,196	\$ 215,676 49,097	\$ 79,004 25,365	\$ 99,779 26,851	\$ 622,412 116,277	\$ 116,161 31,554	\$ 414,975 60,722
21,910,729	235,078	130,310	166,579	53,639	72,928	506,135	84,607	354,253
3,042,556	3,413	5,598	2,116	5,453	6,955	28,138	9,565	41,681
.....	62,000	6,895	11,000	11,500	39,202	.....	4,000	40,000
1,409,182	4,540	1,815	339	444	871	4,831	1,134	32,882
4,451,738	69,953	14,308	13,455	17,397	47,028	32,969	14,699	114,563
730,707	15,081	131	4,775	.....	.....	26,103	81	332
.....	.....	.....	.....	.....	.....	.....	.....	.....
47,117	923	.....	84	.....	952	1,133	162	282
777,824	16,004	131	4,859	.....	952	27,236	243	614
30,183,250	386,940	158,720	145,914	31,293	56,804	60,588	82,219	599,467
<b>57,323,541</b>	<b>707,975</b>	<b>303,469</b>	<b>330,807</b>	<b>102,329</b>	<b>177,712</b>	<b>626,928</b>	<b>181,768</b>	<b>1,068,897</b>
1,053,000	.....	1,800	.....	.....	15,000	191,000	.....	.....
1,380,176	655	469	1,542	1,072	3,586	25,336	169	4,675
139,449	2,915	2,172	1,108	907	682	6,232	465	3,127
2,572,625	3,570	4,441	2,650	1,979	19,268	222,568	634	7,802
30,183,250	386,940	158,720	145,914	31,293	56,804	60,588	82,219	599,467
243,542	.....	.....	.....	.....	.....	.....	.....	.....
30,426,792	386,940	158,720	145,914	31,293	56,804	60,588	82,219	599,467
6,656,892	80,162	28,908	12,000	21,000	47,900	94,000	12,000	77,571
.....	.....	.....	.....	.....	.....	.....	.....	.....
17,667,232	237,303	111,400	170,243	48,057	53,740	249,772	86,915	384,057
24,324,124	317,465	140,308	182,243	69,057	101,640	343,772	93,915	461,628
<b>57,323,541</b>	<b>707,975</b>	<b>303,469</b>	<b>330,807</b>	<b>102,329</b>	<b>177,712</b>	<b>626,928</b>	<b>181,768</b>	<b>1,068,897</b>
17,002,076	183,751	74,867	89,371	23,881	35,834	230,108	46,367	266,485
204,160	4,268	1,538	2,494	667	1,970	2,321	393	3,182
<b>17,206,236</b>	<b>188,019</b>	<b>76,405</b>	<b>91,865</b>	<b>24,548</b>	<b>37,804</b>	<b>232,429</b>	<b>46,760</b>	<b>269,667</b>
13,107,397	135,341	50,140	57,727	16,929	21,574	108,162	32,450	216,827
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,045,456	16,211	7,250	8,580	1,803	3,202	25,120	3,103	17,506
849,214	14,959	5,496	11,005	4,592	4,865	34,451	3,225	12,139
113,848	.....	662	.....	.....	2,078	21,149	.....	.....
488,304	9,813	4,187	5,230	2,426	2,966	14,832	3,323	9,076
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>15,604,219</b>	<b>176,324</b>	<b>67,735</b>	<b>82,542</b>	<b>25,750</b>	<b>34,685</b>	<b>203,714</b>	<b>42,101</b>	<b>255,548</b>
<b>1,602,017</b>	<b>11,695</b>	<b>8,670</b>	<b>9,323</b>	<b>1,202</b>	<b>3,119</b>	<b>28,715</b>	<b>4,659</b>	<b>14,119</b>
81,824	1,624	676	689	448	468	2,176	365	1,469

Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Highgate	Holstein	Huntsville	Ingersoll	Iroquois	Jarvis
Population.....	385	179	3,120	7,283	1,091	762
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	33,674	13,144	247,713	684,123	202,478	61,417
Accumulated depreciation.....	12,718	3,484	57,372	159,004	21,471	14,141
Net fixed assets.....	20,956	9,660	190,341	525,119	181,007	47,276
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	3,275	2,458	21,348	12,051	8,935	6,090
Investment in government securities	3,000	500	34,950	.....	31,000	.....
Accounts receivable (Net).....	537	42	6,456	9,833	969	346
Total current assets.....	6,812	3,000	62,754	21,884	40,904	6,436
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	.....	8,172	14,505	1,059	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	.....	.....	3,052	.....	.....
Total other assets.....	.....	.....	8,172	17,557	1,059	.....
Equity in Ontario Hydro Systems....	36,740	12,061	312,573	768,488	43,678	60,534
	<b>64,508</b>	<b>24,721</b>	<b>573,840</b>	<b>1,333,048</b>	<b>266,648</b>	<b>114,246</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	.....	.....	88,206	.....	.....
Accounts payable.....	20	.....	217	1,680	24	.....
Other.....	125	84	1,886	13,388	1,995	105
Total liabilities.....	145	84	2,103	103,274	2,019	105
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	36,740	12,061	312,573	768,488	43,678	60,534
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	36,740	12,061	312,573	768,488	43,678	60,534
<b>CAPITAL</b>						
Debentures redeemed.....	5,000	2,762	15,697	111,594	.....	10,500
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	22,623	9,814	243,467	349,692	220,951	43,107
Total capital.....	27,623	12,576	259,164	461,286	220,951	53,607
	<b>64,508</b>	<b>24,721</b>	<b>573,840</b>	<b>1,333,048</b>	<b>266,648</b>	<b>114,246</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	13,318	5,985	145,892	324,389	49,985	24,954
Other.....	235	17	2,995	2,593	1,093	3
Total revenue.....	<b>13,553</b>	<b>6,002</b>	<b>148,887</b>	<b>326,982</b>	<b>51,078</b>	<b>24,957</b>
<b>EXPENSE</b>						
Power purchased.....	7,649	4,675	91,333	218,992	25,686	16,337
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	880	527	16,545	34,906	3,410	718
Administration.....	904	551	10,008	32,223	8,482	2,279
Fixed charges—interest and principal	.....	.....	.....	9,109	.....	.....
—depreciation.....	1,109	400	5,966	16,478	4,624	1,923
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>10,542</b>	<b>6,153</b>	<b>123,852</b>	<b>311,708</b>	<b>42,202</b>	<b>21,257</b>
Net income or net expense.....	<b>3,011</b>	<b>151</b>	<b>25,035</b>	<b>15,274</b>	<b>8,876</b>	<b>3,700</b>
Number of customers.....	164	96	1,216	2,336	393	279

## Statements for the Year Ended December 31, 1961

Kemptville 1,938	Killaloe Station 897	Kincardine 2,851	Kingston 48,432	Kingsville 3,040	Kirkfield 178	Kitchener 74,522	Lakefield 2,127	Lambeth 2,025
\$ 148,514 28,993	\$ 58,216 18,821	\$ 282,660 81,926	\$ 5,576,876 1,505,797	\$ 280,235 78,926	\$ 21,435 4,710	\$ 9,700,673 2,061,657	\$ 195,332 46,584	\$ 117,043 24,950
119,521	44,395	200,734	4,071,079	201,309	16,725	7,639,016	148,748	92,093
4,317	5,934	.....	333,558	1,975	1,831	350,533	13,493	11,308
12,000	.....	15,000	180,000	23,500	2,000	300,000	27,000	.....
4,551	4,201	8,122	165,757	3,654	288	369,569	1,523	2,889
20,868	10,135	23,122	679,315	29,129	4,119	1,020,102	42,016	14,197
10,767	.....	966	192,955	2,169	.....	192,820	5,787	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2,455	364	153,479	53	260	3,412	2,803	.....
10,767	2,455	1,330	346,434	2,222	260	196,232	8,590	.....
126,331	.....	230,222	2,078,507	198,066	13,000	6,243,516	99,131	62,184
<b>277,487</b>	<b>56,985</b>	<b>455,408</b>	<b>7,175,335</b>	<b>430,726</b>	<b>34,104</b>	<b>15,098,866</b>	<b>298,485</b>	<b>168,474</b>
.....	39,000	.....	1,273,000	.....	.....	325,500	.....	10,341
12,112	11,867	1,286	188,302	214	.....	279,611	1,044	15
1,335	.....	1,119	6,038	4,405	6	130,674	1,135	2,039
13,447	50,867	2,405	1,467,340	4,619	6	735,785	2,179	12,395
126,331	.....	230,222	2,078,507	198,066	13,000	6,243,516	99,131	62,184
522	.....	.....	103,456	.....	.....	315,268	.....	.....
126,853	.....	230,222	2,181,963	198,066	13,000	6,558,784	99,131	62,184
19,507	1,000	60,000	531,839	33,500	5,766	2,001,743	33,500	22,159
.....	.....	.....	.....	.....	.....	.....	.....	.....
117,680	5,118	162,781	2,994,193	194,541	15,332	5,802,554	163,675	71,736
137,187	6,118	222,781	3,526,032	228,041	21,098	7,804,297	197,175	93,895
<b>277,487</b>	<b>56,985</b>	<b>455,408</b>	<b>7,175,335</b>	<b>430,726</b>	<b>34,104</b>	<b>15,098,866</b>	<b>298,485</b>	<b>168,474</b>
93,359	24,221	128,749	2,111,063	107,537	6,334	3,939,183	70,458	60,076
2,213	425	2,041	42,851	1,657	54	48,857	1,229	931
<b>95,572</b>	<b>24,646</b>	<b>130,790</b>	<b>2,153,914</b>	<b>109,194</b>	<b>6,388</b>	<b>3,988,040</b>	<b>71,687</b>	<b>61,007</b>
68,102	11,201	87,785	1,349,774	71,177	3,402	2,402,395	46,340	38,678
.....	.....	.....	.....	.....	.....	.....	.....	.....
8,140	1,168	15,230	205,867	10,108	788	450,196	4,522	3,160
7,339	2,390	8,917	240,696	15,619	661	284,836	7,165	4,144
.....	3,349	.....	137,820	27	.....	162,181	.....	1,308
3,656	1,420	7,416	135,926	7,363	637	200,041	5,738	3,298
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>87,237</b>	<b>19,528</b>	<b>119,348</b>	<b>2,070,083</b>	<b>104,294</b>	<b>5,488</b>	<b>3,499,649</b>	<b>63,765</b>	<b>50,588</b>
<b>8,335</b>	<b>5,118</b>	<b>11,442</b>	<b>83,831</b>	<b>4,900</b>	<b>900</b>	<b>488,391</b>	<b>7,922</b>	<b>10,419</b>
768	293	1,247	16,005	1,261	106	24,824	766	622

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Lanark	Lancaster	Leamington	Lindsay	Listowel	London
Population.....	900	597	8,930	11,119	3,915	161,554
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	57,087	31,884	732,591	1,195,117	406,568	17,545,166
Accumulated depreciation.....	7,996	9,846	188,737	334,122	186,308	3,740,000
Net fixed assets.....	49,091	22,038	543,854	860,995	270,260	13,805,166
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	2,210	1,563	41,398	400	17,263	38,288
Investment in government securities	10,000	5,500	2,000	.....	20,000	306,500
Accounts receivable (Net).....	463	1,454	5,389	8,122	2,224	782,761
Total current assets.....	12,673	8,517	48,787	8,522	39,487	1,127,549
<b>OTHER ASSETS</b>						
Inventory of stores.....	43	.....	23,472	15,804	1,023	552,191
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	.....	938	.....	3,477	101,291
Total other assets.....	43	.....	24,410	15,804	4,500	653,482
Equity in Ontario Hydro Systems....	32,403	26,373	528,005	685,840	373,009	9,843,588
	<b>94,210</b>	<b>56,928</b>	<b>1,145,056</b>	<b>1,571,161</b>	<b>687,256</b>	<b>25,429,785</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	.....	62,500	.....	38,408	5,255,079
Accounts payable.....	.....	256	3,726	16,835	4,258	1,192,405
Other.....	196	493	16,700	7,833	5,780	194,814
Total liabilities.....	196	749	82,926	24,668	48,446	6,642,298
<b>RESERVES</b>						
Equity in Ontario Hydro Systems....	32,403	26,373	528,005	685,840	373,009	9,843,588
Other.....	.....	.....	.....	.....	.....	289,583
Total reserves.....	32,403	26,373	528,005	685,840	373,009	10,133,171
<b>CAPITAL</b>						
Debentures redeemed.....	7,316	8,917	63,500	130,000	74,426	1,883,327
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	54,295	20,889	470,625	730,653	191,375	6,770,989
Total capital.....	61,611	29,806	534,125	860,653	265,801	8,654,316
	<b>94,210</b>	<b>56,928</b>	<b>1,145,056</b>	<b>1,571,161</b>	<b>687,256</b>	<b>25,429,785</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	17,803	14,232	385,587	491,956	174,185	6,331,624
Other.....	665	466	2,037	24,237	778	199,463
Total revenue.....	<b>18,468</b>	<b>14,698</b>	<b>387,624</b>	<b>516,193</b>	<b>174,963</b>	<b>6,531,087</b>
<b>EXPENSE</b>						
Power purchased.....	13,286	11,012	256,349	341,566	126,554	4,019,849
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	1,194	1,932	25,756	58,282	12,646	542,702
Administration.....	1,493	2,231	37,768	46,557	10,671	616,820
Fixed charges—interest and principal	.....	.....	5,436	.....	6,518	382,995
—depreciation.....	1,442	964	19,184	24,347	11,567	334,863
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>17,415</b>	<b>16,139</b>	<b>344,493</b>	<b>470,752</b>	<b>167,956</b>	<b>5,897,229</b>
Net income or net expense.....	<b>1,053</b>	<b>1,441</b>	<b>43,131</b>	<b>45,441</b>	<b>7,007</b>	<b>633,858</b>
Number of customers.....	286	207	3,323	3,945	1,601	52,203



Statements for the Year Ended December 31, 1961

Long Branch 10,814	L'Orignal 1,206	Lucan 932	Lucknow 1,008	Lynden 527	Madoc 1,485	Magnetawan 254	Markdale 1,107	Markham 4,584
\$ 631,243 75,187	\$ 92,920 21,982	\$ 85,297 24,334	\$ 103,169 17,113	\$ 33,955 11,011	\$ 153,038 40,119	\$ 25,021 6,798	\$ 69,146 13,148	\$ 344,276 62,070
556,056	70,938	60,963	86,056	22,944	112,919	18,223	55,998	282,206
1,714	3,745	4,981	7,012	10,464	8,024	2,062	5,058	.....
14,768	.....	5,500	9,000	2,000	21,888	8,946	5,694	.....
82,028	321	258	1,512	517	1,947	81	326	5,233
98,510	4,066	10,739	17,524	12,981	31,859	11,089	11,078	5,233
.....	.....	51	.....	.....	5,931	37	190	1,009
102	1,878	.....	474	.....	100	490	112	367
102	1,878	51	474	.....	6,031	527	302	1,376
371,572	9,365	78,460	96,692	47,300	66,440	3,440	57,571	140,414
<b>1,026,240</b>	<b>86,247</b>	<b>150,213</b>	<b>200,746</b>	<b>83,225</b>	<b>217,249</b>	<b>33,279</b>	<b>124,949</b>	<b>429,229</b>
.....	18,500	.....	.....	.....	.....	13,800	.....	43,115
3	696	.....	4,082	560	30	4	496	8,757
15,631	390	690	.....	32	1,211	.....	742	5,730
15,634	19,586	690	4,082	592	1,241	13,804	1,238	57,602
371,572	9,365	78,460	96,692	47,300	66,440	3,440	57,571	140,414
.....	.....	.....	.....	.....	.....	.....	.....	.....
371,572	9,365	78,460	96,692	47,300	66,440	3,440	57,571	140,414
40,305	9,500	11,214	17,614	4,495	14,000	10,200	6,370	25,672
.....	.....	.....	.....	.....	.....	.....	.....	.....
598,729	47,796	59,849	82,358	30,838	135,568	5,835	59,770	205,541
639,034	57,296	71,063	99,972	35,333	149,568	16,035	66,140	231,213
<b>1,026,240</b>	<b>86,247</b>	<b>150,213</b>	<b>200,746</b>	<b>83,225</b>	<b>217,249</b>	<b>33,279</b>	<b>124,949</b>	<b>429,229</b>
422,201 1,978	29,117 789	35,109 372	43,161 294	16,409 494	49,906 2,115	7,428 307	39,561 377	182,919 1,605
<b>424,179</b>	<b>29,906</b>	<b>35,481</b>	<b>43,455</b>	<b>16,903</b>	<b>52,021</b>	<b>7,735</b>	<b>39,938</b>	<b>184,524</b>
257,480	15,451	23,862	28,297	10,975	36,678	3,464	30,227	119,276
.....	.....	.....	.....	.....	.....	.....	.....	.....
36,122	1,495	2,582	3,907	392	2,913	547	3,053	9,224
40,905	2,970	2,049	4,283	1,617	4,612	714	2,519	15,685
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2,501	.....	.....	.....	.....	2,112	.....	6,178
15,171	2,752	2,571	2,658	1,076	4,394	727	1,862	9,073
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>349,678</b>	<b>25,169</b>	<b>31,064</b>	<b>39,145</b>	<b>14,060</b>	<b>48,597</b>	<b>7,564</b>	<b>37,661</b>	<b>159,436</b>
<b>74,501</b>	<b>4,737</b>	<b>4,417</b>	<b>4,310</b>	<b>2,843</b>	<b>3,424</b>	<b>171</b>	<b>2,277</b>	<b>25,088</b>
4,270	377	361	466	170	597	107	455	1,421

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Marmora	Martintown	Maxville	Meaford	Merlin	Merrickville
Population.....	1,302	430	839	3,723	607	880
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	98,929	30,664	68,756	292,249	68,862	73,926
Accumulated depreciation.....	33,711	7,841	12,984	76,497	24,906	7,176
Net fixed assets.....	65,218	22,823	55,772	215,752	43,956	66,750
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	10,783	6,288	5,071	27,752	10,907	883
Investment in government securities	3,000	.....	1,500	.....	.....	.....
Accounts receivable (Net).....	937	1,399	349	2,634	89	5,057
Total current assets.....	14,720	7,687	6,920	30,386	10,996	5,940
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,979	.....	.....	8,113	438	.....
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	.....	.....	469	.....	352
Total other assets.....	1,979	.....	.....	8,582	438	352
Equity in Ontario Hydro Systems.....	47,552	12,301	45,851	212,570	44,312	17,250
	<b>129,469</b>	<b>42,811</b>	<b>108,543</b>	<b>467,290</b>	<b>99,702</b>	<b>90,292</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	.....	.....	.....	.....	13,300
Accounts payable.....	9	142	198	709	37	2,168
Other.....	1,135	126	167	5,701	143	860
Total liabilities.....	1,144	268	365	6,410	180	16,328
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	47,552	12,301	45,851	212,570	44,312	17,250
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	47,552	12,301	45,851	212,570	44,312	17,250
<b>CAPITAL</b>						
Debentures redeemed.....	15,092	5,347	13,642	47,725	13,122	11,700
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	65,681	24,895	48,685	200,585	42,088	45,014
Total capital.....	80,773	30,242	62,327	248,310	55,210	56,714
	<b>129,469</b>	<b>42,811</b>	<b>108,543</b>	<b>467,290</b>	<b>99,702</b>	<b>90,292</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	46,201	8,963	25,353	154,095	21,045	25,232
Other.....	374	74	227	2,615	2,604	20
Total revenue.....	<b>46,575</b>	<b>9,037</b>	<b>25,580</b>	<b>156,710</b>	<b>23,649</b>	<b>25,252</b>
<b>EXPENSE</b>						
Power purchased.....	27,802	6,243	20,027	121,061	12,728	17,936
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	5,318	717	1,949	14,545	1,876	1,275
Administration.....	3,751	956	1,225	12,569	4,774	2,620
Fixed charges—interest and principal	.....	.....	.....	.....	.....	1,811
—depreciation.....	2,861	885	1,941	7,133	1,989	1,798
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>39,732</b>	<b>8,801</b>	<b>25,142</b>	<b>155,308</b>	<b>21,367</b>	<b>25,440</b>
Net income or net expense.....	<b>6,843</b>	<b>236</b>	<b>438</b>	<b>1,402</b>	<b>2,282</b>	<b>188</b>
Number of customers.....	521	125	317	1,527	254	358

## Statements for the Year Ended December 31, 1961

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell	Moorefield	Morrisburg
8,718	869	861	5,488	1,059	17,566	2,243	313	1,806
\$ 731,972 275,021	\$ 54,581 6,640	\$ 62,614 11,918	\$ 569,331 119,531	\$ 89,523 21,601	\$ 1,092,265 286,642	\$ 274,487 71,941	\$ 24,560 7,176	\$ 232,017 32,946
456,951	47,941	50,696	449,800	67,922	805,623	202,546	17,384	199,071
13,843	986	127	36,610	12,163	87,245	2,351	1,251	22,260
140,000	7,500	11,000	.....	13,000	65,000	23,000	1,000	11,000
29,771	160	1,209	3,564	2,272	32,713	4,762	185	1,500
183,614	8,646	12,336	40,174	27,435	184,958	30,113	2,436	34,760
9,885	.....	772	2,684	80	18,555	11,578	20	7,380
.....	.....	.....	.....	.....	.....	.....	.....	.....
984	.....	582	537	.....	1,794	265	.....	.....
10,869	.....	1,354	3,221	80	20,349	11,843	20	7,380
904,715	34,051	24,591	446,052	159,490	716,402	201,212	26,615	69,651
<b>1,556,149</b>	<b>90,638</b>	<b>88,977</b>	<b>939,247</b>	<b>254,927</b>	<b>1,727,332</b>	<b>445,714</b>	<b>46,455</b>	<b>310,862</b>
.....	.....	.....	68,047	11,200	75,000	14,900	.....	.....
1,797	724	33	616	.....	40,510	48	1,489	598
3,099	221	836	7,506	301	31,248	1,771	479	2,869
4,896	945	869	76,169	11,501	146,758	16,719	1,968	3,467
904,715	34,051	24,591	446,052	159,490	716,402	201,212	26,615	69,651
.....	.....	.....	.....	.....	.....	.....	.....	.....
904,715	34,051	24,591	446,052	159,490	716,402	201,212	26,615	69,651
111,945	12,304	9,000	56,035	13,060	175,868	32,209	4,500	31,636
.....	.....	.....	.....	.....	.....	.....	.....	.....
534,593	43,338	54,517	360,991	70,876	688,304	195,574	13,372	206,108
646,538	55,642	63,517	417,026	83,936	864,172	227,783	17,872	237,744
<b>1,556,149</b>	<b>90,638</b>	<b>88,977</b>	<b>939,247</b>	<b>254,927</b>	<b>1,727,332</b>	<b>445,714</b>	<b>46,455</b>	<b>310,862</b>
348,898	26,792	25,400	250,495	54,325	511,568	120,883	12,787	71,263
6,299	536	590	4,627	745	20,480	2,434	38	2,903
<b>355,197</b>	<b>27,328</b>	<b>25,990</b>	<b>255,122</b>	<b>55,070</b>	<b>532,048</b>	<b>123,317</b>	<b>12,825</b>	<b>74,166</b>
287,144	18,452	19,060	155,328	34,146	336,927	78,555	10,760	45,470
.....	.....	.....	.....	.....	.....	.....	.....	.....
33,452	3,035	3,355	15,182	6,930	27,994	12,673	1,176	13,739
24,197	2,133	3,134	27,807	5,067	78,429	11,328	546	13,782
.....	.....	.....	7,423	1,150	9,304	1,837	.....	.....
21,772	1,321	1,721	13,695	2,320	26,688	6,508	758	5,542
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>366,565</b>	<b>24,941</b>	<b>27,270</b>	<b>219,435</b>	<b>49,613</b>	<b>479,342</b>	<b>110,901</b>	<b>13,240</b>	<b>78,533</b>
<b>11,368</b>	<b>2,387</b>	<b>1,280</b>	<b>35,687</b>	<b>5,457</b>	<b>52,706</b>	<b>12,416</b>	<b>415</b>	<b>4,367</b>
2,902	317	335	1,784	479	6,808	917	137	743

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Mount Brydges 993	Mount Forest 2,576	Napanee 4,507	Neustadt 499	Newboro 284	Newburgh 552
Population.....						
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	70,999	184,747	402,385	37,066	31,744	58,375
Accumulated depreciation.....	10,688	44,947	118,858	15,257	6,147	18,885
Net fixed assets.....	60,311	139,800	283,527	21,809	25,597	39,490
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	2,433	22,593	100			3,227
Investment in government securities.....		20,000	27,000	19,200	3,000	3,000
Accounts receivable (Net).....	917	2,690	29,925	154	615	316
Total current assets.....	3,350	45,283	57,025	19,354	3,615	6,543
<b>OTHER ASSETS</b>						
Inventory of stores.....		1,842	9,161	30		
Sinking fund on local debentures.....						
Miscellaneous.....	405		1,443		1,661	737
Total other assets.....	405	1,842	10,604	30	1,661	737
Equity in Ontario Hydro Systems.....	35,715	174,400	293,449	28,037	3,850	9,872
	<b>99,781</b>	<b>361,325</b>	<b>644,605</b>	<b>69,230</b>	<b>34,723</b>	<b>56,642</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	14,200				8,021	3,050
Accounts payable.....	2,363	331	27,240	297	694	940
Other.....	524	1,191	5,716	184	139	246
Total liabilities.....	17,087	1,522	32,956	481	8,854	4,236
<b>RESERVES</b>						
Equity in Ontario Hydro Systems.....	35,715	174,400	293,449	28,037	3,850	9,872
Other.....						
Total reserves.....	35,715	174,400	293,449	28,037	3,850	9,872
<b>CAPITAL</b>						
Debentures redeemed.....	4,984	21,627	70,000	15,504	8,979	10,950
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.....	41,995	163,776	248,200	25,208	13,040	31,584
Total capital.....	46,979	185,403	318,200	40,712	22,019	42,534
	<b>99,781</b>	<b>361,325</b>	<b>644,605</b>	<b>69,230</b>	<b>34,723</b>	<b>56,642</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	28,666	105,642	179,149	11,502	8,072	18,669
Other.....	62	2,063	26,615	798	94	279
Total revenue.....	<b>28,728</b>	<b>107,705</b>	<b>205,764</b>	<b>12,300</b>	<b>8,166</b>	<b>18,948</b>
<b>EXPENSE</b>						
Power purchased.....	15,256	76,956	131,323	10,406	3,911	10,388
Local generation.....						
Operation and maintenance.....	2,355	6,639	18,167	1,024	865	1,474
Administration.....	3,119	9,200	39,136	1,872	1,227	2,053
Fixed charges—interest and principal.....	1,330		879		1,144	850
—depreciation.....	1,926	4,625	9,277	1,261	902	1,808
—other.....						
Total expense.....	<b>23,986</b>	<b>97,420</b>	<b>198,782</b>	<b>14,563</b>	<b>8,049</b>	<b>16,573</b>
Net income or net expense.....	<b>4,742</b>	<b>10,285</b>	<b>6,982</b>	<b>2,263</b>	<b>117</b>	<b>2,375</b>
Number of customers.....	362	1,025	1,701	208	148	193



## Statements for the Year Ended December 31, 1961

Newbury 334	Newcastle 1,195	New Hamburg 2,129	Newmarket 8,087	New Toronto 11,717	Niagara 2,620	Niagara Falls 22,192	North York Twp. 257,209	Norwich 1,687
\$ 25,425 8,645	\$ 127,307 34,132	\$ 159,955 37,403	\$ 730,441 148,287	\$ 985,457 200,050	\$ 265,287 60,261	\$ 2,467,789 631,782	\$ 22,395,620 3,159,356	\$ 111,530 40,472
16,780	93,175	122,552	582,154	785,407	205,026	1,836,007	19,236,264	71,058
1,125	.....	17,482	29,625	153,734	14,622	127,683	1,360,423	6,840
6,500	4,000	15,000	.....	80,000	10,000	55,000	10,000	7,500
867	1,794	1,545	9,224	15,708	3,044	59,828	210,457	2,555
8,492	5,794	34,027	38,849	249,442	27,666	242,511	1,580,880	16,895
30	1,766	1,802	336	20,462	15,863	88,684	725,161	4,931
.....	.....	.....	.....	.....	.....	.....	617,710	.....
144	284	.....	440	949	38	1,933	265,624	27
174	2,050	1,802	776	21,411	15,901	90,617	1,608,495	4,958
18,106	46,879	194,017	252,731	2,351,959	174,420	2,388,305	5,068,991	142,752
<b>43,552</b>	<b>147,898</b>	<b>352,398</b>	<b>874,510</b>	<b>3,408,219</b>	<b>423,013</b>	<b>4,557,440</b>	<b>27,494,630</b>	<b>235,663</b>
.....	13,000	9,000	55,435	.....	22,759	.....	9,047,147	.....
188	1,329	21	18,912	570	976	298	193,066	13
120	744	208	7,737	21,233	2,819	47,465	743,672	1,415
308	15,073	9,229	82,084	21,803	26,554	47,763	9,983,885	1,428
18,106	46,879	194,017	252,731	2,351,959	174,420	2,388,305	5,068,991	142,752
.....	.....	.....	.....	.....	.....	.....	.....	.....
18,106	46,879	194,017	252,731	2,351,959	174,420	2,388,305	5,068,991	142,752
9,754	16,000	23,264	39,466	8,000	57,749	690,243	2,721,595	13,756
.....	.....	.....	.....	.....	.....	.....	617,710	.....
15,384	69,946	125,888	500,229	1,026,457	164,290	1,431,129	9,102,449	77,727
25,138	85,946	149,152	539,695	1,034,457	222,039	2,121,372	12,441,754	91,483
<b>43,552</b>	<b>147,898</b>	<b>352,398</b>	<b>874,510</b>	<b>3,408,219</b>	<b>423,013</b>	<b>4,557,440</b>	<b>27,494,630</b>	<b>235,663</b>
7,353	49,201	82,181	386,885	1,245,685	105,259	1,028,323	10,841,730	60,522
309	1,034	784	1,135	11,500	1,752	5,413	186,618	2,518
<b>7,662</b>	<b>50,235</b>	<b>82,965</b>	<b>388,020</b>	<b>1,257,185</b>	<b>107,011</b>	<b>1,033,736</b>	<b>11,028,348</b>	<b>63,040</b>
4,850	31,142	56,139	264,344	1,088,963	68,581	590,257	6,637,467	37,127
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,027	3,757	7,207	17,890	30,948	14,348	145,710	832,171	14,357
877	7,219	5,497	21,119	61,348	8,824	84,730	952,733	5,718
.....	.....	.....	.....	.....	.....	.....	.....	.....
1,840	1,401	6,429	.....	.....	3,210	.....	823,054	.....
847	3,326	4,127	18,585	24,350	6,632	59,378	508,420	2,703
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>7,601</b>	<b>47,284</b>	<b>74,371</b>	<b>328,367</b>	<b>1,205,609</b>	<b>101,595</b>	<b>880,075</b>	<b>9,753,845</b>	<b>59,905</b>
<b>61</b>	<b>2,951</b>	<b>8,594</b>	<b>59,653</b>	<b>51,576</b>	<b>5,416</b>	<b>153,661</b>	<b>1,274,503</b>	<b>3,135</b>
134	481	718	2,739	3,960	1,072	7,435	85,377	691

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Norwood	Oakville- Trafalgar	Oil Springs	Omemece	Orangeville	Orillia
Population.....	1,077	42,254	481	829	4,693	14,635
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	110,516	4,553,587	62,591	70,316	333,337	4,735,639
Accumulated depreciation.....	30,598	692,522	22,556	23,780	78,383	1,081,968
Net fixed assets.....	79,918	3,861,065	40,035	46,536	254,954	3,653,671
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	5,720	100,639	4,573	.....	2,309	365
Investment in government securities	15,000	.....	11,000	11,000	.....	110,261
Accounts receivable (Net).....	2,839	125,606	105	188	4,726	101,887
Total current assets.....	23,559	226,245	15,678	11,188	7,035	212,513
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	92,832	502	2,938	3,808	56,860
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	1,390	57,155	682	.....	1,005	430
Total other assets.....	1,390	149,987	1,184	2,938	4,813	57,290
Equity in Ontario Hydro Systems....	44,628	756,381	78,494	26,794	256,618	127,517
	<b>149,495</b>	<b>4,993,678</b>	<b>135,391</b>	<b>87,456</b>	<b>523,420</b>	<b>4,050,991</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	1,894,905	.....	.....	.....	871,000
Accounts payable.....	560	57,394	290	2,172	1,432	30,811
Other.....	962	131,412	345	239	3,307	15,166
Total liabilities.....	1,522	2,083,711	635	2,411	4,739	916,977
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	44,628	756,381	78,494	26,794	256,618	127,517
Other.....	.....	.....	.....	.....	.....	111,363
Total reserves.....	44,628	756,381	78,494	26,794	256,618	238,880
<b>CAPITAL</b>						
Debentures redeemed.....	55,100	371,683	16,721	12,000	25,594	1,741,000
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	48,245	1,781,903	39,541	46,251	236,469	1,154,134
Total capital.....	103,345	2,153,586	56,262	58,251	262,063	2,895,134
	<b>149,495</b>	<b>4,993,678</b>	<b>135,391</b>	<b>87,456</b>	<b>523,420</b>	<b>4,050,991</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	33,496	2,056,905	17,675	25,504	193,968	752,703
Other.....	905	46,724	1,547	664	532	5,440
Total revenue.....	<b>34,401</b>	<b>2,103,629</b>	<b>19,222</b>	<b>26,168</b>	<b>194,500</b>	<b>758,143</b>
<b>EXPENSE</b>						
Power purchased.....	26,423	1,378,477	10,071	16,346	130,127	200,205
Local generation.....	.....	.....	.....	.....	.....	135,179
Operation and maintenance.....	1,856	145,991	1,948	4,768	11,607	97,043
Administration.....	3,063	177,515	2,665	2,594	14,360	94,492
Fixed charges—interest and principal	.....	170,221	.....	.....	.....	136,871
—depreciation.....	3,475	92,175	1,943	2,170	9,040	99,039
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>34,817</b>	<b>1,964,379</b>	<b>16,627</b>	<b>25,878</b>	<b>165,134</b>	<b>762,829</b>
Net income or net expense.....	<b>416</b>	<b>139,250</b>	<b>2,595</b>	<b>290</b>	<b>29,366</b>	<b>4,686</b>
Number of customers.....	403	11,988	230	312	1,746	5,490

## Statements for the Year Ended December 31, 1961

Orono	Oshawa	Ottawa	Otterville	Owen Sound	Paisley	Palmerston	Paris	Parkhill
845	61,350	289,236	767	17,732	748	1,518	5,790	1,135
\$ 74,119 19,978	\$ 7,005,563 1,515,400	\$ 30,613,949 6,381,975	\$ 56,036 22,016	\$ 1,550,012 356,456	\$ 80,949 19,695	\$ 189,267 49,263	\$ 543,129 149,210	\$ 130,135 24,407
54,141	5,490,163	24,231,974	34,020	1,193,556	61,254	139,999	393,919	105,728
20	234,778	418,724	6,203	48,475	491	5,584	15,491	5,929
8,000	400,000	543,000	.....	70,000	11,000	.....	.....	6,000
537	264,424	920,324	127	62,420	326	2,376	3,509	2,826
8,557	899,202	1,882,048	6,330	180,895	11,817	7,960	19,000	14,755
2,923	121,207	377,234	.....	46,438	.....	185	874	136
40	9,827	14,847	.....	2,493	195	.....	124	145
2,963	131,034	392,081	.....	48,931	195	185	998	281
23,179	4,041,545	6,542,632	41,251	1,217,400	52,078	176,537	466,883	92,128
<b>88,840</b>	<b>10,561,944</b>	<b>33,048,735</b>	<b>81,601</b>	<b>2,640,782</b>	<b>125,344</b>	<b>324,681</b>	<b>880,800</b>	<b>212,892</b>
.....	321,000	4,941,000	.....	31,000	.....	14,000	85,200	7,700
659	239,123	778,023	305	38,923	309	6,234	4	239
480	125,763	882	269	21,575	411	1,949	2,342	1,408
1,139	685,886	5,719,905	574	91,498	720	22,183	87,546	9,347
23,179	4,041,545	6,542,632	41,251	1,217,400	52,078	176,537	466,883	92,128
.....	.....	436,847	.....	654	.....	.....	.....	.....
23,179	4,041,545	6,979,479	41,251	1,218,054	52,078	176,537	466,883	92,128
8,000	481,623	4,949,698	4,500	176,718	13,623	28,000	110,306	22,046
.....	.....	.....	.....	.....	.....	.....	.....	.....
56,522	5,352,890	15,399,653	35,276	1,154,512	58,923	97,961	216,065	89,371
64,522	5,834,513	20,349,351	39,776	1,331,230	72,546	125,961	326,371	111,417
<b>88,840</b>	<b>10,561,944</b>	<b>33,048,735</b>	<b>81,601</b>	<b>2,640,782</b>	<b>125,344</b>	<b>324,681</b>	<b>880,800</b>	<b>212,892</b>
30,091	3,010,226	10,832,687	23,222	650,351	27,868	63,216	203,535	58,892
1,116	103,101	221,489	210	29,975	692	168	480	543
<b>31,207</b>	<b>3,113,327</b>	<b>11,054,176</b>	<b>23,432</b>	<b>680,326</b>	<b>28,560</b>	<b>63,384</b>	<b>204,015</b>	<b>59,435</b>
19,924	2,260,493	6,470,033	16,047	410,793	17,151	39,878	126,872	38,356
.....	.....	215,342	.....	.....	.....	.....	.....	.....
2,971	216,025	1,095,558	1,372	78,348	3,046	7,278	19,476	4,081
5,653	195,117	752,336	1,966	78,803	3,680	9,240	19,017	5,282
.....	58,631	553,590	.....	8,433	.....	2,601	9,078	1,080
1,903	164,035	799,970	1,837	34,228	2,116	5,048	14,832	3,379
.....	.....	28,763	.....	.....	.....	.....	.....	.....
<b>30,451</b>	<b>2,894,301</b>	<b>9,915,592</b>	<b>21,222</b>	<b>610,605</b>	<b>25,993</b>	<b>64,045</b>	<b>189,275</b>	<b>52,178</b>
<b>756</b>	<b>219,026</b>	<b>1,138,584</b>	<b>2,210</b>	<b>69,721</b>	<b>2,567</b>	<b>661</b>	<b>14,740</b>	<b>7,257</b>
370	19,850	90,604	296	6,228	328	619	1,977	503



Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Parry Sound	Penetang- uishene	Perth	Peter- borough	Petrolia	Pickering
Population .....	6,137	4,664	5,663	46,803	3,670	1,752
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	921,057	297,915	450,312	6,054,498	358,036	115,940
Accumulated depreciation.....	240,813	109,486	135,824	1,695,984	105,971	21,041
Net fixed assets .....	680,244	188,429	314,488	4,358,514	252,065	94,899
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	350	8,622	2,741	50,779	10,267	5,604
Investment in government securities	16,408	75,000	45,000	.....	15,053	.....
Accounts receivable (Net).....	4,350	1,520	2,047	197,913	12,792	3,242
Total current assets.....	21,108	85,142	49,788	248,692	38,112	8,846
<b>OTHER ASSETS</b>						
Inventory of stores.....	4,549	833	8,416	53,767	16,824	278
Sinking fund on local debentures .....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	274	.....	14,707	917	3,033
Total other assets .....	4,549	1,107	8,416	68,474	17,741	3,311
Equity in Ontario Hydro Systems .....	70,643	263,358	377,121	2,646,811	364,535	8,590
	<b>776,544</b>	<b>538,036</b>	<b>749,813</b>	<b>7,322,491</b>	<b>672,453</b>	<b>115,646</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	63,000	.....	.....	870,300	.....	70,000
Accounts payable.....	5,518	112	7,004	145,606	4,235	1,720
Other.....	10,714	1,748	4,708	7,971	4,689	1,483
Total liabilities.....	79,232	1,860	11,712	1,023,877	8,924	73,203
<b>RESERVES</b>						
Equity in Ontario Hydro Systems .....	70,643	263,358	377,121	2,646,811	364,535	8,590
Other.....	2,310	.....	.....	.....	.....	.....
Total reserves.....	72,953	263,358	377,121	2,646,811	364,535	8,590
<b>CAPITAL</b>						
Debentures redeemed.....	405,500	36,983	85,045	889,311	50,000	3,694
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds .....	218,859	235,835	275,935	2,762,492	248,994	30,159
Total capital.....	624,359	272,818	360,980	3,651,803	298,994	33,853
	<b>776,544</b>	<b>538,036</b>	<b>749,813</b>	<b>7,322,491</b>	<b>672,453</b>	<b>115,646</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	224,907	130,287	200,205	2,095,997	136,428	59,278
Other.....	3,015	4,314	4,698	17,807	2,077	1,041
Total revenue .....	<b>227,922</b>	<b>134,601</b>	<b>204,903</b>	<b>2,113,804</b>	<b>138,505</b>	<b>60,319</b>
<b>EXPENSE</b>						
Power purchased.....	88,573	93,774	161,867	1,313,470	65,087	31,818
Local generation.....	33,401	.....	.....	.....	.....	.....
Operation and maintenance.....	27,734	14,145	13,407	225,687	21,815	4,217
Administration.....	29,359	13,217	19,527	144,784	21,429	4,832
Fixed charges—interest and principal	5,857	.....	.....	93,956	.....	7,015
—depreciation.....	21,059	8,935	11,030	149,318	9,305	3,082
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>205,983</b>	<b>130,071</b>	<b>205,831</b>	<b>1,927,215</b>	<b>117,636</b>	<b>50,964</b>
Net income or net expense .....	<b>21,939</b>	<b>4,530</b>	<b>928</b>	<b>186,589</b>	<b>20,869</b>	<b>9,355</b>
Number of customers.....	2,063	1,397	2,023	15,043	1,319	519



## Statements for the Year Ended December 31, 1961

Picton	Plattsville	Point Edward	Port Burwell	Port Colborne	Port Credit	Port Dover	Port Elgin	Port Hope
4,739	484	2,762	766	14,949	6,736	3,037	1,733	8,100
\$	\$	\$	\$	\$	\$	\$	\$	\$
.474,753	48,212	283,582	81,248	1,103,881	706,041	309,570	216,515	837,787
139,797	3,947	64,119	29,640	148,668	119,485	81,179	38,493	218,265
334,956	44,265	219,463	51,608	955,213	586,556	228,391	178,022	619,522
4,710	2,164	4,710	2,846	32,485	33,597	10,909	4,378	63,096
2,000	4,500	5,000	.....	10,000	13,500	.....	1,500	.....
2,727	184	5,992	762	4,608	4,599	2,839	2,397	2,901
9,437	6,848	15,702	3,608	47,093	51,696	13,748	8,275	65,997
12,686	26	262	228	14,677	5,411	308	3,574	32,748
.....	.....	1,063	958	10,711	3,594	.....	.....	.....
12,686	26	1,325	1,186	25,388	9,005	308	3,574	32,748
327,550	52,082	375,346	19,491	600,961	397,701	159,368	108,977	553,173
<b>684,629</b>	<b>103,221</b>	<b>611,836</b>	<b>75,893</b>	<b>1,628,655</b>	<b>1,044,958</b>	<b>401,815</b>	<b>298,848</b>	<b>1,271,440</b>
20,529	.....	.....	31,000	105,143	40,400	66,224	.....	71,100
2,248	.....	2,033	3	7,232	3,963	19	1,914	368
12,997	.....	2,157	3,409	12,820	10,142	8,348	.....	41,599
35,774	.....	4,190	34,412	125,195	54,505	74,591	1,914	113,067
327,550	52,082	375,346	19,491	600,961	397,701	159,368	108,977	553,173
.....	.....	.....	.....	.....	.....	.....	.....	.....
327,550	52,082	375,346	19,491	600,961	397,701	159,368	108,977	553,173
42,654	5,237	17,000	9,000	237,857	97,283	42,304	37,787	172,900
.....	.....	.....	.....	.....	.....	.....	.....	.....
278,651	45,902	215,300	12,990	664,642	495,469	125,552	150,170	432,300
321,305	51,139	232,300	21,990	902,499	592,752	167,856	187,957	605,200
<b>684,629</b>	<b>103,221</b>	<b>611,836</b>	<b>75,893</b>	<b>1,628,655</b>	<b>1,044,958</b>	<b>401,815</b>	<b>298,848</b>	<b>1,271,440</b>
205,993	29,177	183,162	26,027	418,321	608,698	134,458	93,884	410,965
2,084	332	4,497	203	1,734	8,975	188	1,014	1,836
<b>208,077</b>	<b>29,509</b>	<b>187,659</b>	<b>26,230</b>	<b>420,055</b>	<b>617,673</b>	<b>134,646</b>	<b>94,898</b>	<b>412,801</b>
141,058	25,764	159,569	10,594	239,336	510,173	86,024	50,151	252,107
.....	.....	.....	.....	.....	.....	.....	.....	.....
14,525	942	14,883	6,210	54,281	19,090	13,272	15,377	36,122
15,996	636	21,567	3,126	55,937	30,618	10,353	12,784	41,151
7,397	.....	924	2,919	15,902	9,111	6,267	.....	19,063
12,821	1,234	7,273	2,639	25,401	15,236	8,634	4,877	20,106
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>191,797</b>	<b>28,576</b>	<b>204,216</b>	<b>25,488</b>	<b>390,857</b>	<b>584,228</b>	<b>124,550</b>	<b>83,189</b>	<b>368,549</b>
<b>16,280</b>	<b>933</b>	<b>16,557</b>	<b>742</b>	<b>29,198</b>	<b>33,445</b>	<b>10,096</b>	<b>11,709</b>	<b>44,252</b>
1,795	195	842	480	4,704	2,818	1,574	1,084	2,774

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Port McNicol 1,056	Port Perry 2,291	Port Rowan 789	Port Stanley 1,457	Prescott 5,255	Preston 11,543
Population.....						
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	95,121	153,710	69,487	192,376	329,415	1,313,186
Accumulated depreciation.....	16,868	28,707	14,863	67,976	104,521	296,681
Net fixed assets.....	78,253	125,003	54,624	124,400	224,894	1,016,505
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....			1,543	4,525	5,138	33,185
Investment in government securities	26,000	16,000		9,000	30,000	30,000
Accounts receivable (Net).....	4,133	7,324	254	4,142	13,815	9,970
Total current assets.....	30,133	23,324	1,797	17,667	48,953	73,155
<b>OTHER ASSETS</b>						
Inventory of stores.....	2,573	160	276	547	10,607	38,319
Sinking fund on local debentures..						
Miscellaneous.....	340	2,248	189	175		75
Total other assets.....	2,913	2,408	465	722	10,607	38,394
Equity in Ontario Hydro Systems....	67,357	104,351	34,307	174,566	288,060	1,069,114
	<b>178,656</b>	<b>255,086</b>	<b>91,193</b>	<b>317,355</b>	<b>572,514</b>	<b>2,197,168</b>
<b>LIABILITIES</b>						
Debentures outstanding.....						187,320
Accounts payable.....	981	2,994	693		779	2,383
Other.....	367	1,889	300	1,017	3,639	65,256
Total liabilities.....	1,348	4,883	993	1,017	4,418	254,959
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	67,357	104,351	34,307	174,566	288,060	1,069,114
Other.....						
Total reserves.....	67,357	104,351	34,307	174,566	288,060	1,069,114
<b>CAPITAL</b>						
Debentures redeemed.....	9,804	19,882	11,000	18,950	23,981	288,963
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	100,147	125,970	44,893	122,822	256,055	584,132
Total capital.....	109,951	145,852	55,893	141,772	280,036	873,095
	<b>178,656</b>	<b>255,086</b>	<b>91,193</b>	<b>317,355</b>	<b>572,514</b>	<b>2,197,168</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	53,669	68,647	18,257	74,316	170,564	530,696
Other.....	1,782	1,834	19	761	2,225	5,524
Total revenue.....	<b>55,451</b>	<b>70,481</b>	<b>18,276</b>	<b>75,077</b>	<b>172,789</b>	<b>536,220</b>
<b>EXPENSE</b>						
Power purchased.....	37,383	54,579	10,906	44,593	129,758	325,974
Local generation.....						
Operation and maintenance.....	4,503	7,681	1,596	10,969	11,490	65,842
Administration.....	3,964	7,584	1,922	11,374	17,615	33,695
Fixed charges—interest and principal						30,898
—depreciation.....	2,364	4,210	1,823	5,870	9,760	32,663
—other.....						
Total expense.....	<b>48,214</b>	<b>74,054</b>	<b>16,247</b>	<b>72,806</b>	<b>168,623</b>	<b>489,072</b>
Net income or net expense.....	<b>7,237</b>	<b>3,573</b>	<b>2,029</b>	<b>2,271</b>	<b>4,166</b>	<b>47,148</b>
Number of customers.....	513	839	298	1,138	1,742	3,328

Statements for the Year Ended December 31, 1961

Priceville	Princeton	Queenston	Renfrew	Richmond	Richmond Hill	Ridgetown	Ripley	Riverside
150	418	506	8,461	1,188	17,242	2,560	443	17,911
\$	\$	\$	\$	\$	\$	\$	\$	\$
16,195	33,582	45,898	1,411,259	97,209	1,245,927	201,402	37,387	898,640
6,071	7,494	8,005	310,643	10,472	163,988	38,938	8,471	245,429
10,124	26,088	37,893	1,100,616	86,737	1,081,939	162,464	28,916	653,211
2,792	4,368	1,985	6,594	8,444	13,578	13,879	8,034	4,230
5,500	3,000	8,000	45,000	.....	.....	15,043	15,000	.....
116	490	802	33,983	1,723	32,223	1,748	115	20,270
8,408	7,858	10,787	85,577	10,167	45,801	30,670	23,149	24,500
.....	.....	.....	13,693	71	22,535	9	.....	22,936
.....	.....	.....	577	167	13,762	3,392	1,773	5,172
.....	.....	.....	14,270	238	36,297	3,401	1,773	28,108
4,773	40,230	33,259	147,183	26,609	281,260	179,453	37,721	472,101
<b>23,305</b>	<b>74,176</b>	<b>81,939</b>	<b>1,347,646</b>	<b>123,751</b>	<b>1,445,297</b>	<b>375,988</b>	<b>91,559</b>	<b>1,177,920</b>
3,000	1,750	.....	168,295	5,900	568,083	44,726	.....	42,700
96	.....	51	1,806	21,393	31,291	2,951	156	846
71	626	145	25,423	911	40,106	6,116	448	17,637
3,167	2,376	196	195,524	28,204	639,480	53,793	604	61,183
4,773	40,230	33,259	147,183	26,609	281,260	179,453	37,721	472,101
.....	.....	.....	.....	.....	.....	.....	.....	.....
4,773	40,230	33,259	147,183	26,609	281,260	179,453	37,721	472,101
9,166	4,245	9,500	602,942	7,987	101,638	36,730	12,744	152,700
.....	.....	.....	.....	.....	.....	.....	.....	.....
6,199	27,325	38,984	401,997	60,951	422,919	106,012	40,490	491,936
15,365	31,570	48,484	1,004,939	68,938	524,557	142,742	53,234	644,636
<b>23,305</b>	<b>74,176</b>	<b>81,939</b>	<b>1,347,646</b>	<b>123,751</b>	<b>1,445,297</b>	<b>375,988</b>	<b>91,559</b>	<b>1,177,920</b>
3,913	14,351	19,329	300,599	34,304	605,336	98,414	16,655	408,396
285	178	631	4,088	2	9,103	2,107	838	6,171
<b>4,198</b>	<b>14,529</b>	<b>19,960</b>	<b>304,687</b>	<b>34,306</b>	<b>614,439</b>	<b>100,521</b>	<b>17,493</b>	<b>414,567</b>
1,950	9,997	15,081	163,102	21,330	399,676	57,125	12,320	271,802
.....	.....	.....	31,390	.....	.....	.....	.....	.....
528	800	872	21,162	1,984	36,224	8,429	1,175	38,859
461	1,237	1,243	29,774	1,302	46,639	12,961	1,541	54,595
412	355	.....	19,790	1,760	53,126	5,203	.....	13,607
552	986	1,219	29,838	2,419	27,863	5,451	1,110	22,729
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>3,903</b>	<b>13,375</b>	<b>18,415</b>	<b>295,056</b>	<b>28,795</b>	<b>563,528</b>	<b>89,169</b>	<b>16,146</b>	<b>401,592</b>
<b>295</b>	<b>1,154</b>	<b>1,545</b>	<b>9,631</b>	<b>5,511</b>	<b>50,911</b>	<b>11,352</b>	<b>1,347</b>	<b>12,975</b>
62	168	175	2,601	347	4,845	1,056	218	5,442

Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Rockland	Rockwood	Rodney	Rosseau	Russell	St. Catharines
Population.....	2,980	857	1,105	231	556	83,736
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	117,219	50,373	66,311	24,773	50,072	8,074,347
Accumulated depreciation.....	14,162	11,690	23,677	6,038	7,314	1,429,063
Net fixed assets.....	103,057	38,683	42,634	18,735	42,758	6,645,284
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	2,820	4,952	.....	3,263	3,932	291,233
Investment in government securities.....	.....	1,500	5,200	2,500	12,000	100,000
Accounts receivable (Net).....	2,626	12	322	259	2,062	425,479
Total current assets.....	5,446	6,464	5,522	6,022	17,994	816,712
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	.....	29	.....	.....	106,770
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	1,927	2,672	216	.....	.....	1,371
Total other assets.....	1,927	2,672	245	.....	.....	108,141
Equity in Ontario Hydro Systems.....	21,923	49,043	61,027	15,982	26,872	5,595,028
	132,353	96,862	109,428	40,739	87,624	13,165,165
<b>LIABILITIES</b>						
Debentures outstanding.....	18,000	6,218	.....	.....	.....	19,500
Accounts payable.....	486	2,670	3,350	706	9,458	2,010,001
Other.....	2,645	650	630	43	77	25,918
Total liabilities.....	21,131	9,538	3,980	749	9,535	2,055,419
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	21,923	49,043	61,027	15,982	26,872	5,595,028
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	21,923	49,043	61,027	15,982	26,872	5,595,028
<b>CAPITAL</b>						
Debentures redeemed.....	7,000	6,111	8,500	11,933	8,808	384,209
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	82,299	32,170	35,921	12,075	42,409	5,130,509
Total capital.....	89,299	38,281	44,421	24,008	51,217	5,514,718
	132,353	96,862	109,428	40,739	87,624	13,165,165
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	56,658	25,482	30,770	7,776	14,002	3,998,556
Other.....	218	79	287	281	592	41,743
Total revenue.....	56,876	25,561	31,057	8,057	14,594	4,040,299
<b>EXPENSE</b>						
Power purchased.....	36,077	18,187	20,205	4,461	10,947	2,925,189
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	7,064	1,574	4,582	1,015	1,111	244,417
Administration.....	3,457	2,984	4,386	699	1,725	295,442
Fixed charges—interest and principal	1,834	589	.....	.....	.....	3,509
—depreciation.....	2,837	1,504	2,136	775	1,336	145,388
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	51,269	24,838	31,309	6,950	15,119	3,613,945
Net income or net expense.....	5,607	723	252	1,107	525	426,354
Number of customers.....	728	290	452	129	206	26,140



## Statements for the Year Ended December 31, 1961

St. Clair Beach 1,446	St. George 765	St. Jacobs 686	St. Mary's 4,515	St. Thomas 22,191	Sandwich East Twp. 21,954	Sandwich West Twp. 28,436	Sarnia 50,265	Scarborough Twp. 208,864
\$ 102,358 25,071	\$ 52,489 5,156	\$ 55,855 11,681	\$ 537,454 145,957	\$ 2,067,950 607,456	\$ 1,451,314 352,919	\$ 2,178,877 444,135	\$ 5,265,682 1,255,451	\$ 20,506,302 2,743,919
77,287	47,333	44,174	391,497	1,460,494	1,098,395	1,734,742	4,010,231	17,762,383
15,064	332	764	61,900	10,456	144,649	117,428	58,095	1,146,292
.....	6,000	4,734	42,500	35,000	16,457	65,175	.....	327,500
933	614	1,549	2,531	125,647	38,496	64,740	128,254	407,497
15,997	6,946	7,047	106,931	171,103	199,602	247,343	186,349	1,881,289
14	65	10	18,859	43,051	42,060	29,121	159,908	150,232
.....	.....	.....	.....	.....	.....	.....	.....	787,511
194	.....	.....	.....	7,144	45,126	61,355	47,780	253,167
208	65	10	18,859	50,195	87,186	90,476	207,688	1,190,910
40,175	58,032	73,555	577,339	1,939,614	225,545	408,237	4,187,057	4,090,017
<b>133,667</b>	<b>112,376</b>	<b>124,786</b>	<b>1,094,626</b>	<b>3,621,406</b>	<b>1,610,728</b>	<b>2,480,798</b>	<b>8,591,325</b>	<b>24,924,599</b>
4,100	.....	.....	38,873	200,000	881,000	1,063,000	631,100	9,919,251
1,740	30	.....	42	193	5,210	2,704	37,023	636,651
1,257	742	100	6,863	54,007	37,318	99,257	121,198	1,101,259
7,097	772	100	45,778	254,200	923,528	1,164,961	789,321	11,657,161
40,175	58,032	73,555	577,339	1,939,614	225,545	408,237	4,187,057	4,090,017
.....	.....	.....	.....	.....	.....	.....	.....	.....
40,175	58,032	73,555	577,339	1,939,614	225,545	408,237	4,187,057	4,090,017
13,789	6,000	6,000	151,334	138,944	161,101	232,500	655,291	2,044,302
.....	.....	.....	.....	.....	.....	.....	.....	787,511
72,606	47,572	45,131	320,175	1,288,648	300,554	675,100	2,959,656	6,345,608
86,395	53,572	51,131	471,509	1,427,592	461,655	907,600	3,614,947	9,177,421
<b>133,667</b>	<b>112,376</b>	<b>124,786</b>	<b>1,094,626</b>	<b>3,621,406</b>	<b>1,610,728</b>	<b>2,480,798</b>	<b>8,591,325</b>	<b>24,924,599</b>
40,361 191	23,869 458	29,186 221	493,994 5,584	989,711 8,207	624,470 7,701	891,723 11,525	6,734,141 50,647	8,032,842 260,775
<b>40,552</b>	<b>24,327</b>	<b>29,407</b>	<b>499,578</b>	<b>997,918</b>	<b>632,171</b>	<b>903,248</b>	<b>6,784,788</b>	<b>8,293,617</b>
24,651	19,559	22,646	373,655	576,920	262,073	468,818	5,644,833	5,293,015
.....	.....	.....	.....	.....	.....	.....	.....	.....
4,169	1,560	974	21,486	164,236	106,531	137,789	422,089	471,000
5,258	2,051	1,751	22,692	88,861	104,961	80,747	237,782	500,322
1,537	.....	.....	5,421	1,417	85,210	108,000	65,021	895,564
3,148	1,268	1,539	14,244	49,955	36,966	55,212	125,624	470,038
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>38,763</b>	<b>24,438</b>	<b>26,910</b>	<b>437,498</b>	<b>881,389</b>	<b>595,741</b>	<b>850,566</b>	<b>6,495,349</b>	<b>7,629,939</b>
<b>1,789</b>	<b>111</b>	<b>2,497</b>	<b>62,080</b>	<b>116,529</b>	<b>36,430</b>	<b>52,682</b>	<b>289,439</b>	<b>663,678</b>
430	287	245	1,675	7,936	6,247	7,871	15,669	64,904

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality .....	Seaforth	Shelburne	Simcoe	Smith's Falls	Smithville	Southampton
Population .....	2,192	1,295	8,625	9,209	871	1,769
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost .....	250,844	124,747	773,211	812,743	74,253	195,849
Accumulated depreciation .....	38,567	38,128	192,062	238,730	15,172	32,030
Net fixed assets .....	212,277	86,619	581,149	574,013	59,081	163,819
<b>CURRENT ASSETS</b>						
Cash on hand and in bank .....	8,062	9,010	44,343	3,122	6,790	21,067
Investment in government securities	9,000	10,000	24,268	20,000	3,000	5,000
Accounts receivable (Net) .....	6,676	1,043	3,787	4,199	638	830
Total current assets .....	23,738	20,053	72,398	27,321	10,428	26,897
<b>OTHER ASSETS</b>						
Inventory of stores .....	563	406	983	20,810	226	2,081
Sinking fund on local debentures ..	.....	.....	.....	.....	.....	.....
Miscellaneous .....	1,898	300	.....	215	.....	.....
Total other assets .....	2,461	706	983	21,025	226	2,081
Equity in Ontario Hydro Systems .....	225,669	96,297	603,547	595,925	37,202	103,682
	<b>464,145</b>	<b>203,675</b>	<b>1,258,077</b>	<b>1,218,284</b>	<b>106,937</b>	<b>296,479</b>
<b>LIABILITIES</b>						
Debentures outstanding .....	23,800	.....	.....	5,000	.....	5,441
Accounts payable .....	594	109	21	1,583	124	.....
Other .....	4,219	181	11,441	2,068	373	1,442
Total liabilities .....	28,613	290	11,462	8,651	497	6,883
<b>RESERVES</b>						
Equity in Ontario Hydro Systems ..	225,669	96,297	603,547	595,925	37,202	103,682
Other .....	.....	.....	.....	.....	.....	.....
Total reserves .....	225,669	96,297	603,547	595,925	37,202	103,682
<b>CAPITAL</b>						
Debentures redeemed .....	50,640	16,991	75,435	142,787	15,000	37,082
Local sinking fund .....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds ..	159,223	90,097	567,633	470,921	54,238	148,832
Total capital .....	209,863	107,088	643,068	613,708	69,238	185,914
	<b>464,145</b>	<b>203,675</b>	<b>1,258,077</b>	<b>1,218,284</b>	<b>106,937</b>	<b>296,479</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy .....	95,500	51,148	408,904	351,196	41,441	84,841
Other .....	772	383	5,009	2,582	408	2,293
Total revenue .....	<b>96,272</b>	<b>51,531</b>	<b>413,913</b>	<b>353,778</b>	<b>41,849</b>	<b>87,134</b>
<b>EXPENSE</b>						
Power purchased .....	57,562	34,426	288,899	242,613	24,357	48,032
Local generation .....	.....	.....	.....	.....	.....	.....
Operation and maintenance .....	10,372	2,479	41,370	32,866	4,097	11,875
Administration .....	11,062	5,068	22,965	35,813	5,784	6,189
Fixed charges—interest and principal	2,941	.....	.....	3,040	.....	1,516
—depreciation .....	5,760	3,822	19,454	22,505	1,913	4,448
—other .....	.....	.....	.....	.....	.....	.....
Total expense .....	<b>87,697</b>	<b>45,795</b>	<b>372,688</b>	<b>336,837</b>	<b>36,151</b>	<b>72,060</b>
Net income or net expense .....	<b>8,575</b>	<b>5,736</b>	<b>41,225</b>	<b>16,941</b>	<b>5,698</b>	<b>15,074</b>
Number of customers .....	891	585	3,207	3,382	374	1,199

## Statements for the Year Ended December 31, 1961

Springfield	Stamford Twp.	Stayner	Stirling	Stoney Creek	Stouffville	Stratford	Strathroy	Streetsville
517	30,470	1,658	1,296	6,387	3,216	20,536	5,110	5,180
\$ 41,968 14,769	\$ 2,605,912 434,809	\$ 137,579 25,239	\$ 135,301 40,173	\$ 379,759 55,270	\$ 241,491 33,444	\$ 2,431,013 573,710	\$ 512,888 164,742	\$ 373,188 56,562
27,199	2,171,103	112,340	95,128	324,489	208,047	1,857,303	348,146	316,626
4,449	309,860	7,170	13,192	13,789	19,976	39,138	10,483	20,506
1,500	8,000	1,000	.....	19,872	.....	180,000	.....	.....
180	20,193	1,448	990	2,342	2,842	33,897	36,388	7,378
6,129	338,053	9,618	14,182	36,003	22,818	253,035	46,871	27,884
.....	34,284	415	1,542	36	358	73,305	1,389	581
.....	27,633	715	.....	643	2,038	20,127	2,007	52
.....	61,917	1,130	1,542	679	2,396	93,432	3,396	633
34,019	813,431	86,716	63,486	108,713	122,832	2,211,987	387,695	105,630
<b>67,347</b>	<b>3,384,504</b>	<b>209,804</b>	<b>174,338</b>	<b>469,884</b>	<b>356,093</b>	<b>4,415,757</b>	<b>786,108</b>	<b>450,773</b>
.....	950,012	.....	5,561	42,709	63,545	319,000	85,600	105,516
9	72,275	3,622	4	578	438	8,761	1,260	890
400	60,921	646	1,039	7,480	10,892	144,181	6,546	8,806
409	1,083,208	4,268	6,604	50,767	74,875	471,942	93,406	115,212
34,019	813,431	86,716	63,486	108,713	122,832	2,211,987	387,695	105,630
.....	.....	.....	.....	.....	.....	.....	.....	1,027
34,019	813,431	86,716	63,486	108,713	122,832	2,211,987	387,695	106,657
9,500	620,266	9,557	17,439	35,751	20,736	464,800	58,169	47,582
.....	.....	.....	.....	.....	.....	.....	.....	.....
23,419	867,599	109,263	86,809	274,653	137,650	1,267,028	246,838	181,322
32,919	1,437,865	118,820	104,248	310,404	158,386	1,731,828	305,007	228,904
<b>67,347</b>	<b>3,384,504</b>	<b>209,804</b>	<b>174,338</b>	<b>469,884</b>	<b>356,093</b>	<b>4,415,757</b>	<b>786,108</b>	<b>450,773</b>
12,403	1,093,568	54,413	49,571	200,312	132,131	946,606	211,004	190,375
194	12,054	871	750	3,265	1,677	29,454	775	1,937
<b>12,597</b>	<b>1,110,622</b>	<b>55,284</b>	<b>50,321</b>	<b>203,577</b>	<b>133,808</b>	<b>976,060</b>	<b>211,779</b>	<b>192,312</b>
9,172	621,412	35,515	31,856	145,950	86,141	582,806	130,161	121,792
.....	.....	.....	.....	.....	.....	.....	.....	1,548
1,225	114,960	4,051	6,639	14,236	5,807	127,563	25,039	9,598
1,072	93,094	3,957	5,817	23,439	11,765	88,126	22,988	11,678
.....	111,086	.....	692	6,491	5,639	34,025	2,649	10,506
1,160	64,414	3,420	3,515	9,133	5,427	56,357	12,996	9,522
.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>12,629</b>	<b>1,004,966</b>	<b>46,943</b>	<b>48,519</b>	<b>199,249</b>	<b>114,779</b>	<b>888,877</b>	<b>193,833</b>	<b>164,644</b>
<b>32</b>	<b>105,656</b>	<b>8,341</b>	<b>1,802</b>	<b>4,328</b>	<b>19,029</b>	<b>87,183</b>	<b>17,946</b>	<b>27,668</b>
182	9,141	676	546	2,006	1,096	6,967	1,822	1,504

## Municipal Electrical Utilities Financial

## Southern Ontario System—Continued

Municipality.....	Sunderland	Sundridge	Sutton	Swansea	Tara	Tavistock
Population.....	593	796	1,301	9,512	491	1,220
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	50,660	71,666	146,311	716,380	46,295	131,155
Accumulated depreciation.....	10,304	10,513	41,800	182,035	10,934	54,057
Net fixed assets.....	40,356	61,153	104,511	534,345	35,361	77,098
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	10,267	11,211	6,450	122,267	2,565	16,637
Investment in government securities	2,000	12,864	7,000	.....	8,000	10,000
Accounts receivable (Net).....	315	616	1,721	8,937	201	772
Total current assets.....	12,582	24,691	15,171	131,204	10,766	27,409
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	605	.....	9,987	.....	436
Sinking fund on local debentures...	.....	.....	.....	.....	.....	.....
Miscellaneous.....	49	1,982	3,358	1,589	129	.....
Total other assets.....	49	2,587	3,358	11,576	129	436
Equity in Ontario Hydro Systems...	42,875	11,198	100,554	524,672	40,556	174,705
	<b>95,862</b>	<b>99,629</b>	<b>223,594</b>	<b>1,201,797</b>	<b>86,812</b>	<b>279,648</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	.....	23,328	.....	60,688	.....	19,863
Accounts payable.....	5,086	3,106	1,201	1,979	6	812
Other.....	130	71	807	17,230	45	1,187
Total liabilities.....	5,216	26,505	2,008	79,897	51	21,862
<b>RESERVES</b>						
Equity in Ontario Hydro Systems...	42,875	11,198	100,554	524,672	40,556	174,705
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	42,875	11,198	100,554	524,672	40,556	174,705
<b>CAPITAL</b>						
Debentures redeemed.....	4,628	11,671	26,000	188,142	14,264	15,421
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.	43,143	50,255	95,032	409,086	31,941	67,660
Total capital.....	47,771	61,926	121,032	597,228	46,205	83,081
	<b>95,862</b>	<b>99,629</b>	<b>223,594</b>	<b>1,201,797</b>	<b>86,812</b>	<b>279,648</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	21,029	27,097	66,618	339,840	23,037	52,715
Other.....	253	794	454	19,017	338	2,808
Total revenue.....	<b>21,282</b>	<b>27,891</b>	<b>67,072</b>	<b>358,857</b>	<b>23,375</b>	<b>55,523</b>
<b>EXPENSE</b>						
Power purchased.....	13,312	14,040	44,518	238,471	17,665	33,241
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	2,056	1,699	4,788	61,693	1,248	5,223
Administration.....	1,718	2,079	8,363	37,708	1,131	3,785
Fixed charges—interest and principal	.....	2,809	.....	13,757	.....	2,260
—depreciation.....	1,409	1,685	4,406	17,746	1,359	3,344
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>18,495</b>	<b>22,312</b>	<b>62,075</b>	<b>369,375</b>	<b>21,403</b>	<b>47,853</b>
Net income or net expense.....	<b>2,787</b>	<b>5,579</b>	<b>4,997</b>	<b>10,518</b>	<b>1,972</b>	<b>7,670</b>
Number of customers.....	262	298	894	3,528	233	513



## Statements for the Year Ended December 31, 1961

Tecumseh	Teeswater	Thamesford	Thamesville	Thedford	Thornbury	Thorndale	Thornton
4,462	884	1,074	1,041	749	1,141	417	323
\$	\$	\$	\$	\$	\$	\$	\$
245,671	97,056	82,122	106,382	61,797	156,886	34,867	21,163
81,020	14,882	16,808	29,578	10,961	19,218	11,528	9,230
164,651	82,174	65,314	76,804	50,836	137,668	23,339	11,933
13,934	.....	4,458	11,934	.....	2,138	5,356	2,292
.....	3,500	.....	6,849	9,934	4,000	3,000	.....
6,630	688	901	604	616	6,048	371	546
20,564	4,188	5,359	19,387	10,550	12,186	8,727	2,838
14,417	.....	.....	17	28	1,581	.....	.....
.....	250	69	27	355	286	.....	116
14,417	250	69	44	383	1,867	.....	116
138,652	62,026	74,383	81,791	47,583	27,599	33,856	14,361
<b>338,284</b>	<b>148,638</b>	<b>145,125</b>	<b>178,026</b>	<b>109,352</b>	<b>179,320</b>	<b>65,922</b>	<b>29,248</b>
.....	.....	2,000	.....	.....	20,977	.....	.....
313	1,229	28	156	2,545	430	1,041	116
2,215	69	674	1,110	504	295	6	97
2,528	1,298	2,702	1,266	3,049	21,702	1,047	213
138,652	62,026	74,383	81,791	47,583	27,599	33,856	14,361
.....	.....	.....	.....	.....	.....	.....	.....
138,652	62,026	74,383	81,791	47,583	27,599	33,856	14,361
26,000	21,296	6,358	11,188	16,500	65,023	3,087	7,200
.....	.....	.....	.....	.....	.....	.....	.....
171,104	64,018	61,682	83,781	42,220	64,996	27,932	7,474
197,104	85,314	68,040	94,969	58,720	130,019	31,019	14,674
<b>338,284</b>	<b>148,638</b>	<b>145,125</b>	<b>178,026</b>	<b>109,352</b>	<b>179,320</b>	<b>65,922</b>	<b>29,248</b>
102,831	36,880	44,846	45,162	23,857	60,506	14,011	7,231
1,250	806	778	858	620	701	259	.....
<b>104,081</b>	<b>37,686</b>	<b>45,624</b>	<b>46,020</b>	<b>24,477</b>	<b>61,207</b>	<b>14,270</b>	<b>7,231</b>
55,615	28,757	32,062	31,658	19,319	34,965	9,481	4,594
.....	.....	.....	.....	.....	.....	.....	.....
18,546	2,972	2,323	5,107	2,167	6,604	798	498
13,498	2,467	2,915	4,719	2,305	4,762	1,840	464
.....	.....	206	.....	.....	2,831	.....	.....
7,276	2,476	2,225	3,043	1,630	3,528	1,100	772
.....	.....	.....	.....	.....	.....	.....	.....
<b>94,935</b>	<b>36,672</b>	<b>39,731</b>	<b>44,527</b>	<b>25,421</b>	<b>52,690</b>	<b>13,219</b>	<b>6,328</b>
<b>9,146</b>	<b>1,014</b>	<b>5,893</b>	<b>1,493</b>	<b>944</b>	<b>8,517</b>	<b>1,051</b>	<b>903</b>
1,341	360	387	441	329	539	136	104

Municipal Electrical Utilities Financial

Southern Ontario System—Continued

Municipality.....	Thorold	Tilbury	Tillsonburg	Toronto	Toronto Twp.	Tottenham
Population.....	8,602	3,086	6,605	661,785	63,175	752
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	653,337	246,556	776,549	98,165,232	7,053,585	43,072
Accumulated depreciation.....	119,822	83,010	125,048	26,444,867	912,446	12,368
Net fixed assets.....	533,515	163,546	651,501	71,720,365	6,141,139	30,704
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	33,457	14,633	30,685	97,464	99,059	7,414
Investment in government securities.....		10,000		4,672,818	8,000	10,556
Accounts receivable (Net).....	2,305	3,003	2,815	4,252,948	354,631	843
Total current assets.....	35,762	27,641	33,500	9,023,230	461,690	18,813
<b>OTHER ASSETS</b>						
Inventory of stores.....	16,181	417	20,104	2,454,415	148,078	
Sinking fund on local debentures.....				911,939		
Miscellaneous.....	3,812	793	5,805	577,570	43,074	81
Total other assets.....	19,993	1,210	25,909	3,943,924	191,152	81
Equity in Ontario Hydro Systems.....	719,937	234,887	411,648	83,231,735	1,825,574	47,501
	<b>1,309,207</b>	<b>427,284</b>	<b>1,122,558</b>	<b>167,919,254</b>	<b>8,619,555</b>	<b>97,099</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	87,100	37,000	81,300	13,368,050	996,113	1,603
Accounts payable.....	19,195	224	11,908	1,782,327	81,622	
Other.....	6,536	5,042	24,043	908,552	141,551	723
Total liabilities.....	112,831	42,266	117,251	16,058,929	1,219,286	2,326
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	719,937	234,887	411,648	83,231,735	1,825,574	47,501
Other.....				515,249		
Total reserves.....	719,937	234,887	411,648	83,746,984	1,825,574	47,501
<b>CAPITAL</b>						
Debentures redeemed.....	42,900	27,000	128,588	31,559,934	601,713	19,832
Local sinking fund.....				911,939		
Accumulated net income invested in plant or held as working funds..	433,539	123,131	465,071	35,641,468	4,972,982	27,440
Total capital.....	476,439	150,131	593,659	68,113,341	5,574,695	47,272
	<b>1,309,207</b>	<b>427,284</b>	<b>1,122,558</b>	<b>167,919,254</b>	<b>8,619,555</b>	<b>97,099</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	585,280	98,696	307,053	38,384,770	3,355,500	22,797
Other.....	7,195	1,444	4,467	440,698	26,845	592
<b>Total revenue.....</b>	<b>592,475</b>	<b>100,140</b>	<b>311,520</b>	<b>38,825,468</b>	<b>3,382,345</b>	<b>23,389</b>
<b>EXPENSE</b>						
Power purchased.....	466,105	57,789	187,553	22,493,127	2,115,011	16,490
Local generation.....						
Operation and maintenance.....	47,078	10,704	43,028	5,177,256	237,443	2,244
Administration.....	30,807	14,915	30,541	4,456,848	229,508	1,616
Fixed charges—interest and principal	9,395	4,699	15,021	1,195,616	116,581	838
—depreciation.....	15,394	6,917	17,137	3,046,760	155,763	1,166
—other.....				52,971		
<b>Total expense.....</b>	<b>568,779</b>	<b>95,024</b>	<b>293,280</b>	<b>36,422,578</b>	<b>2,854,306</b>	<b>22,354</b>
<b>Net income or net expense.....</b>	<b>23,696</b>	<b>5,116</b>	<b>18,240</b>	<b>2,402,890</b>	<b>528,039</b>	<b>1,035</b>
Number of customers.....	2,674	1,042	2,519	210,321	16,491	273

## Statements for the Year Ended December 31, 1961

Trenton	Tweed	Uxbridge	Vankleek Hill	Victoria Harbour	Walkerton	Wallaceburg	Wardsville
12,945	1,818	2,374	1,723	1,036	3,933	7,957	331
\$	\$	\$	\$	\$	\$	\$	\$
1,184,676	157,144	168,539	138,508	66,862	292,732	932,040	28,401
338,570	25,803	40,452	28,875	12,268	46,685	282,344	7,665
846,106	131,341	128,087	109,633	54,594	246,047	649,696	20,736
40,612	.....	12,442	10,418	2,664	23,923	93,086	1,912
55,100	15,000	22,063	.....	.....	23,000	76,676	1,500
25,582	492	1,935	96	1,333	2,840	38,428	253
121,294	15,492	36,440	10,514	3,997	49,763	208,190	3,665
41,297	222	2,767	.....	973	12,322	78,252	.....
.....	.....	.....	.....	.....	.....	.....	.....
100	300	1,100	1,686	148	153	7	.....
41,397	522	3,867	1,686	1,121	12,480	78,259	.....
841,771	79,214	120,374	14,659	30,833	186,357	1,016,242	19,271
<b>1,850,568</b>	<b>226,569</b>	<b>288,768</b>	<b>136,492</b>	<b>90,545</b>	<b>494,647</b>	<b>1,952,387</b>	<b>43,672</b>
.....	.....	.....	32,300	8,800	.....	.....	.....
33,857	1,336	2,526	469	267	369	759	104
14,477	604	2,042	2,075	195	2,894	8,399	215
48,334	1,940	4,568	34,844	9,262	3,263	9,158	319
841,771	79,214	120,374	14,659	30,833	186,357	1,016,242	19,271
.....	.....	.....	.....	.....	.....	1,046	.....
841,771	79,214	120,374	14,659	30,833	186,357	1,017,288	19,271
164,587	19,000	15,364	13,700	10,079	56,749	71,537	7,562
.....	.....	.....	.....	.....	.....	.....	.....
795,876	126,415	148,462	73,289	40,371	248,278	854,404	16,520
960,463	145,415	163,826	86,989	50,450	305,027	925,941	24,082
<b>1,850,568</b>	<b>226,569</b>	<b>288,768</b>	<b>136,492</b>	<b>90,545</b>	<b>494,647</b>	<b>1,952,387</b>	<b>43,672</b>
731,721	49,769	92,752	45,347	26,912	143,052	399,206	11,860
9,414	2,222	1,103	1,189	46	2,759	7,386	276
<b>741,135</b>	<b>51,991</b>	<b>93,855</b>	<b>46,536</b>	<b>26,958</b>	<b>145,811</b>	<b>406,592</b>	<b>12,136</b>
518,365	41,914	68,818	23,440	14,412	96,860	295,457	7,515
.....	.....	.....	.....	.....	.....	.....	.....
33,976	2,871	6,769	4,003	4,008	10,864	43,162	1,273
50,160	6,027	7,989	5,079	2,210	17,862	45,471	637
.....	.....	.....	3,543	1,232	.....	.....	.....
30,938	4,232	4,187	3,884	1,865	6,723	25,550	858
.....	.....	.....	.....	.....	.....	.....	.....
<b>633,439</b>	<b>55,044</b>	<b>87,763</b>	<b>39,949</b>	<b>23,727</b>	<b>132,309</b>	<b>409,640</b>	<b>10,283</b>
<b>107,696</b>	<b>3,053</b>	<b>6,092</b>	<b>6,587</b>	<b>3,231</b>	<b>13,502</b>	<b>3,048</b>	<b>1,853</b>
4,249	641	912	556	503	1,350	2,748	151

Municipal Electrical Utilities Financial  
Southern Ontario System—Continued

Municipality .....	Warkworth	Wasaga Beach	Waterdown	Waterford	Waterloo	Watford
Population .....	537	506	1,858	2,234	21,665	1,234
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	48,093	183,659	129,958	152,120	2,156,636	97,880
Accumulated depreciation.....	9,403	56,191	32,920	36,113	456,027	37,724
Net fixed assets.....	38,690	127,468	97,038	116,007	1,700,609	60,156
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	237	15,389	12,657	4,908	4,521	15,144
Investment in government securities	2,500	15,000	.....	4,969	400	13,139
Accounts receivable (Net).....	80	3,396	1,356	1,889	22,778	1,499
Total current assets.....	2,817	33,785	14,013	11,766	27,699	29,782
<b>OTHER ASSETS</b>						
Inventory of stores.....	.....	208	.....	114	53,189	685
Sinking fund on local debentures...	.....	.....	.....	.....	.....	.....
Miscellaneous.....	.....	2,925	.....	.....	259	249
Total other assets.....	.....	3,133	.....	114	53,448	934
Equity in Ontario Hydro Systems....	23,145	20,685	96,605	132,432	1,338,208	121,422
	64,652	185,071	207,656	260,319	3,119,964	212,294
<b>LIABILITIES</b>						
Debentures outstanding.....	7,237	63,500	8,000	31,400	469,500	.....
Accounts payable.....	67	416	.....	16	15,639	109
Other.....	222	4,016	567	2,934	110,657	911
Total liabilities.....	7,526	67,932	8,567	34,350	595,796	1,020
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	23,145	20,685	96,605	132,432	1,338,208	121,422
Other.....	.....	.....	.....	.....	.....	.....
Total reserves.....	23,145	20,685	96,605	132,432	1,338,208	121,422
<b>CAPITAL</b>						
Debentures redeemed.....	7,536	46,500	14,632	10,723	380,126	9,055
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds..	26,445	49,954	87,852	82,814	805,834	80,797
Total capital.....	33,981	96,454	102,484	93,537	1,185,960	89,852
	64,652	185,071	207,656	260,319	3,119,964	212,294
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	13,935	60,559	63,887	69,378	967,051	71,316
Other.....	155	1,677	2	257	4,079	1,264
Total revenue.....	14,090	62,236	63,889	69,635	971,130	72,580
<b>EXPENSE</b>						
Power purchased.....	10,582	27,652	39,044	39,831	627,796	55,407
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	672	4,081	6,551	10,360	82,442	4,232
Administration.....	1,408	8,537	5,750	5,325	56,788	8,250
Fixed charges—interest and principal	642	8,240	1,442	2,855	66,135	.....
—depreciation.....	1,385	4,831	3,838	3,974	53,456	2,760
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	14,689	53,341	56,625	62,345	886,617	70,649
Net income or net expense.....	599	8,895	7,264	7,290	84,513	1,931
Number of customers.....	238	1,034	593	812	6,640	529



## Statements for the Year Ended December 31, 1961

Waubauskene	Welland	Wellesley	Wellington	West Lorne	Weston	Westport	Wheatley
1,400	35,963	644	1,007	1,150	9,394	713	1,336
\$ 54,144 10,179	\$ 3,113,162 776,207	\$ 54,451 8,416	\$ 76,011 31,894	\$ 118,151 37,589	\$ 1,267,015 274,113	\$ 42,709 5,721	\$ 158,712 31,983
43,965	2,336,955	46,035	44,117	80,562	992,902	36,988	126,729
1,399	225,009	3,102	1,135	12,740	41,559	1,631	12,927
.....	21,970	1,000	7,000	14,720	9,871	8,000	.....
1,076	22,687	14	324	1,604	23,682	.....	183
2,475	269,666	4,116	8,459	29,064	75,112	9,631	13,110
290	30,320	30	1,433	2,496	30,855	.....	108
.....	38,430	1,800	.....	158	32,001 4,804	15	147
290	68,750	1,830	1,433	2,654	67,660	15	255
27,037	1,594,607	59,929	60,295	123,883	1,058,958	32,637	80,697
<b>73,767</b>	<b>4,269,978</b>	<b>111,910</b>	<b>114,304</b>	<b>236,163</b>	<b>2,194,632</b>	<b>79,271</b>	<b>220,791</b>
.....	1,459,500	3,500	.....	.....	168,713	.....	19,338
.....	51,585	1,800	30	116	8,731	5	447
25	42,451	415	918	190	26,652	285	1,485
25	1,553,536	5,715	948	306	204,096	290	21,270
27,037	1,594,607	59,929	60,295	123,883	1,058,958	32,637	80,697
.....	.....	.....	.....	.....	.....	.....	.....
27,037	1,594,607	59,929	60,295	123,883	1,058,958	32,637	80,697
3,242	369,750	8,928	13,816	8,000	135,768 32,001	15,000	32,662
.....	.....	.....	.....	.....	.....	.....	.....
43,463	752,085	37,338	39,245	103,974	763,809	31,344	86,162
46,705	1,121,835	46,266	53,061	111,974	931,578	46,344	118,824
<b>73,767</b>	<b>4,269,978</b>	<b>111,910</b>	<b>114,304</b>	<b>236,163</b>	<b>2,194,632</b>	<b>79,271</b>	<b>220,791</b>
24,007 169	1,132,171 17,095	25,762 41	30,220 660	60,745 4,190	522,017 23,362	20,452 625	59,782 188
<b>24,176</b>	<b>1,149,266</b>	<b>25,803</b>	<b>30,880</b>	<b>64,935</b>	<b>545,379</b>	<b>21,077</b>	<b>59,970</b>
13,129	753,811	16,304	25,000	38,363	332,420	14,388	36,006
.....	.....	.....	.....	.....	.....	.....	.....
3,117	122,684	2,192	3,323	5,935	42,063	1,296	6,416
2,372	109,996	1,905	3,402	7,372	66,914	3,366	4,328
.....	64,768	466	.....	.....	20,191	.....	3,637
1,502	66,862	1,393	2,344	3,164	28,570	1,020	4,165
.....	.....	.....	.....	.....	.....	.....	.....
<b>20,120</b>	<b>1,118,121</b>	<b>22,260</b>	<b>34,069</b>	<b>54,834</b>	<b>490,158</b>	<b>20,070</b>	<b>54,552</b>
<b>4,056</b>	<b>31,145</b>	<b>3,543</b>	<b>3,189</b>	<b>10,101</b>	<b>55,221</b>	<b>1,007</b>	<b>5,418</b>
447	10,635	287	508	439	3,715	301	488

## Municipal Electrical Utilities Financial

## Southern Ontario System—Concluded

Municipality.....	Whitby	Warton	Williams- burg	Winchester	Windermere	Windsor
Population.....	12,895	2,039	350	1,381	118	114,970
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	1,277,828	134,776	22,204	110,718	31,368	12,640,761
Accumulated depreciation.....	175,086	28,512	7,800	27,661	7,534	4,268,101
Net fixed assets.....	1,102,742	106,264	14,404	83,057	23,834	8,372,660
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	28,673	5,916	693	23,029	7,809	160,833
Investment in government securities	10,000	15,000	15,000	.....	5,000	1,968,221
Accounts receivable (Net).....	20,504	794	72	3,040	127	420,485
Total current assets.....	59,177	21,710	15,765	26,069	12,936	2,549,539
<b>OTHER ASSETS</b>						
Inventory of stores.....	27,228	1,214	.....	.....	.....	246,594
Sinking fund on local debentures.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	145	180	.....	1,800	.....	1,390
Total other assets.....	27,373	1,394	.....	1,800	.....	247,984
Equity in Ontario Hydro Systems....	458,158	105,059	27,890	105,689	14,377	12,500,184
	<b>1,647,450</b>	<b>234,427</b>	<b>58,059</b>	<b>216,615</b>	<b>51,147</b>	<b>23,670,367</b>
<b>LIABILITIES</b>						
Debentures outstanding.....	264,000	.....	.....	.....	.....	.....
Accounts payable.....	4,001	151	40	.....	90	256,813
Other.....	96,250	172	403	10	.....	179,840
Total liabilities.....	364,251	323	443	10	90	436,653
<b>RESERVES</b>						
Equity in Ontario Hydro Systems....	458,158	105,059	27,890	105,689	14,377	12,500,184
Other.....	.....	.....	.....	.....	.....	250,637
Total reserves.....	458,158	105,059	27,890	105,689	14,377	12,750,821
<b>CAPITAL</b>						
Debentures redeemed.....	137,190	37,400	2,750	29,162	11,238	2,583,832
Local sinking fund.....	.....	.....	.....	.....	.....	.....
Accumulated net income invested in plant or held as working funds.....	687,851	91,645	26,976	81,754	25,442	7,899,061
Total capital.....	825,041	129,045	29,726	110,916	36,680	10,482,893
	<b>1,647,450</b>	<b>234,427</b>	<b>58,059</b>	<b>216,615</b>	<b>51,147</b>	<b>23,670,367</b>
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	582,337	79,938	10,234	65,931	8,372	4,494,476
Other.....	7,588	1,386	512	145	227	116,573
Total revenue.....	<b>589,925</b>	<b>81,324</b>	<b>10,746</b>	<b>66,076</b>	<b>8,599</b>	<b>4,611,049</b>
<b>EXPENSE</b>						
Power purchased.....	371,633	54,945	9,319	47,058	5,277	2,842,287
Local generation.....	.....	.....	.....	.....	.....	.....
Operation and maintenance.....	40,787	8,683	700	3,415	960	736,993
Administration.....	67,730	6,769	1,103	5,014	630	423,248
Fixed charges—interest and principal	39,600	.....	.....	.....	.....	9,290
—depreciation.....	27,172	3,383	713	3,268	963	339,350
—other.....	.....	.....	.....	.....	.....	.....
Total expense.....	<b>546,922</b>	<b>73,780</b>	<b>11,835</b>	<b>58,755</b>	<b>7,830</b>	<b>4,351,168</b>
Net income or net expense.....	<b>43,003</b>	<b>7,544</b>	<b>1,089</b>	<b>7,321</b>	<b>769</b>	<b>259,881</b>
Number of customers.....	3,846	793	140	574	121	37,305

## Statements for the Year Ended December 31, 1961

Wingham	Woodbridge	Woodstock	Woodville	Wyoming	York Twp.	Zurich	TOTAL SOUTHERN ONTARIO SYSTEM
2,875	2,325	20,303	394	889	124,429	718	
\$ 338,267 132,150	\$ 187,274 41,357	\$ 2,303,601 615,138	\$ 37,704 5,877	\$ 61,803 19,313	\$ 7,740,964 2,368,584	\$ 51,604 8,154	\$ 434,374,368 94,861,310
206,117	145,917	1,688,463	31,827	42,490	5,372,380	43,450	339,513,023
15,791	33,358	10,578	825	9,827	419,148	5,739	14,037,162
60,000	24,600	67,000	.....	9,173	554,000	.....	14,015,604
593	2,309	17,343	622	2,765	220,258	296	13,505,564
76,389	60,267	94,921	1,447	21,765	1,193,406	6,035	41,558,330
12,479	.....	1,071	.....	130	103,130	1,470	8,990,705
.....	.....	.....	.....	.....	.....	.....	3,261,509
277	.....	423	500	.....	3,354	5	2,505,283
12,756	.....	1,494	500	130	106,484	1,475	14,757,497
210,772	195,036	1,876,069	34,356	40,824	4,612,909	55,241	267,925,104
<b>506,034</b>	<b>401,220</b>	<b>3,660,947</b>	<b>68,130</b>	<b>105,209</b>	<b>11,285,179</b>	<b>106,201</b>	<b>663,753,959</b>
.....	.....	33,133	.....	.....	.....	.....	78,652,866
997	3,915	10,953	.....	13	253,017	33	11,197,104
3,355	3,185	28,940	30	187	478,602	230	7,319,307
4,352	7,100	73,026	30	200	731,619	263	97,169,277
210,772	195,036	1,876,069	34,356	40,824	4,612,909	55,241	267,925,104
.....	.....	.....	.....	.....	.....	.....	2,353,400
210,772	195,036	1,876,069	34,356	40,824	4,612,909	55,241	270,278,504
81,155	23,835	396,070	5,248	9,700	489,375	5,592	81,353,934
.....	.....	.....	.....	.....	.....	.....	3,261,509
209,755	175,249	1,315,782	23,496	54,485	5,451,276	45,105	211,690,735
290,910	199,084	1,711,852	33,744	64,185	5,940,651	50,697	296,306,178
<b>506,034</b>	<b>401,220</b>	<b>3,660,947</b>	<b>68,130</b>	<b>105,209</b>	<b>11,285,179</b>	<b>106,201</b>	<b>663,753,959</b>
124,314	110,950	992,628	15,545	25,436	3,553,519	29,181	192,146,597
8,311	2,015	8,032	51	638	84,796	2	3,073,362
<b>132,625</b>	<b>112,965</b>	<b>1,000,660</b>	<b>15,596</b>	<b>26,074</b>	<b>3,638,315</b>	<b>29,183</b>	<b>195,219,959</b>
89,614	81,630	672,925	6,273	16,414	2,368,635	17,259	124,806,780
2,214	.....	.....	.....	.....	.....	.....	505,542
10,157	4,323	111,176	2,010	2,533	325,130	1,674	18,412,323
13,438	8,393	55,017	1,004	1,760	490,542	2,823	16,365,106
.....	.....	17,988	.....	.....	.....	.....	7,773,031
8,451	5,279	54,123	1,020	1,894	212,889	1,413	10,920,911
.....	.....	.....	.....	.....	.....	.....	81,734
<b>123,874</b>	<b>99,625</b>	<b>911,229</b>	<b>10,307</b>	<b>22,601</b>	<b>3,397,196</b>	<b>23,199</b>	<b>178,865,427</b>
<b>8,751</b>	<b>13,340</b>	<b>89,431</b>	<b>5,289</b>	<b>3,473</b>	<b>241,119</b>	<b>5,984</b>	<b>16,354,532</b>
1,078	780	6,995	200	341	41,066	305	1,342,641

Municipal Electrical Utilities Financial

Northern Ontario Properties

Municipality.....	Atikokan Twp.	Cache Bay	Capreol	Chapleau Twp.	Cochrane	Coniston
Population.....	6,918	896	2,937	3,742	4,459	2,680
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	536,712	55,254	226,012	148,660	459,859	121,864
Accumulated depreciation.....	93,003	12,198	38,730	10,315	93,345	11,030
Net fixed assets.....	443,709	43,056	187,282	138,345	366,514	110,834
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	42,717	4,105	30,177	36,193	21,974	789
Investment in government securities	50,000	13,813				
Accounts receivable (Net).....	8,471	1,866	654	3,465	1,863	11,362
Total current assets.....	101,188	19,784	30,831	39,658	23,837	12,151
<b>OTHER ASSETS</b>						
Inventory of stores.....	1,491	426			13,419	
Sinking fund on local debentures.....						
Miscellaneous.....	13,063	1,363	4,764	5,936	10,900	1,049
Total other assets.....	14,554	1,789	4,764	5,936	24,319	1,049
Equity in Ontario Hydro Systems.....	83,266	2,025	6,350		7,463	458
	642,717	66,654	229,227	183,939	422,133	124,492
<b>LIABILITIES</b>						
Debentures outstanding.....	333,000	6,000	82,800	91,000	85,750	41,500
Accounts payable.....	4,325		561		6,050	6,130
Other.....	56,346	110	3,603	3,862	12,504	7,544
Total liabilities.....	393,671	6,110	86,964	94,862	104,304	55,174
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	83,266	2,025	6,350		7,463	458
Other.....						
Total reserves.....	83,266	2,025	6,350		7,463	458
<b>CAPITAL</b>						
Debentures redeemed.....	67,000	20,530	39,200	24,000	59,250	8,500
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds..	98,780	37,989	96,713	65,077	251,116	60,360
Total capital.....	165,780	58,519	135,913	89,077	310,366	68,860
	642,717	66,654	229,227	183,939	422,133	124,492
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	250,166	29,570	119,139	155,077	179,884	64,827
Other.....	6,604	617	338	1	4,370	140
Total revenue.....	256,770	30,187	119,477	155,078	184,254	64,967
<b>EXPENSE</b>						
Power purchased.....	167,794	18,376	68,306	101,524	86,800	39,931
Local generation.....						
Operation and maintenance.....	16,794	1,245	8,643	10,578	23,065	4,526
Administration.....	33,024	2,205	11,881	9,783	25,662	6,111
Fixed charges—interest and principal	33,172	2,324	8,290	9,448	11,900	4,137
—depreciation.....	13,660	1,654	5,431	3,643	10,718	2,854
—other.....						
Total expense.....	264,444	25,804	102,551	134,976	158,145	57,609
Net income or net expense.....	7,674	4,383	16,926	20,102	26,109	7,358
Number of customers.....	1,803	201	995	991	1,320	673



## Statements for the Year Ended December 31, 1961

Dryden	Espanola	Fort William	Hearst	Kapus-kasing	Larder Lake Twp.	Latchford	Massey	McGarry	Nipigon Twp.
6,147	5,222	44,871	2,366	6,794	2,007	483	1,328	2,904	2,687
\$ 565,091 125,935	\$ 284,856 50,794	\$ 4,314,201 986,606	\$ 231,148 25,548	\$ 426,495 36,058	\$ 68,674 25,005	\$ 34,322 7,205	\$ 88,562 9,423	\$ 75,959 18,751	\$ 180,670 41,710
439,156	234,062	3,327,595	205,600	390,437	43,669	27,117	79,139	57,208	138,960
27,128	18,078	200,794	.....	7,680	13,608	6,407	5,208	11,725	8,180
.....	.....	235,500	40,000	.....	.....	.....	.....	.....	22,872
2,461	18,470	116,894	6,492	3,464	745	2,044	3,351	395	1,418
29,589	36,548	553,188	46,492	11,144	14,353	8,451	8,559	12,120	32,470
10,410	.....	132,367	.....	15,643	.....	.....	155	.....	.....
3,534	10,067	11,594	9,710	1,028	2,295	11	2,571	15	.....
13,944	10,067	143,961	9,710	16,671	2,295	11	2,726	15	.....
76,537	1,544	4,900,692	.....	12,301	3,507	590	412	3,342	100,984
<b>559,226</b>	<b>282,221</b>	<b>8,925,436</b>	<b>261,802</b>	<b>430,553</b>	<b>63,824</b>	<b>36,169</b>	<b>90,836</b>	<b>72,685</b>	<b>272,414</b>
132,054	141,500	480,000	52,700	32,861	4,500	.....	34,800	.....	.....
2,181	13,175	106,397	3,970	12,255	1,123	88	1,141	13	238
19,988	8,743	83,225	10,694	10,077	6,035	385	1,586	5,517	2,295
154,223	163,418	669,622	67,364	55,193	11,658	473	37,527	5,530	2,533
76,537	1,544	4,900,692	.....	12,301	3,507	590	412	3,342	100,984
76,537	1,544	4,900,692	.....	12,301	3,507	590	412	3,342	100,984
69,376	3,500	584,209	87,300	57,618	13,500	18,901	10,200	13,782	10,000
259,090	113,759	2,770,913	107,138	305,441	35,159	16,205	42,697	50,031	158,897
328,466	117,259	3,355,122	194,438	363,059	48,659	35,106	52,897	63,813	168,897
<b>559,226</b>	<b>282,221</b>	<b>8,925,436</b>	<b>261,802</b>	<b>430,553</b>	<b>63,824</b>	<b>36,169</b>	<b>90,836</b>	<b>72,685</b>	<b>272,414</b>
222,033	168,983	1,747,195	96,524	215,844	55,265	13,264	44,155	55,882	79,343
7,551	1,618	52,009	2,110	3,563	119	119	111	68	2,607
<b>229,584</b>	<b>170,601</b>	<b>1,799,204</b>	<b>98,634</b>	<b>219,407</b>	<b>55,384</b>	<b>13,383</b>	<b>44,266</b>	<b>55,950</b>	<b>81,950</b>
127,002	92,927	1,118,961	72,025	131,649	38,393	9,130	21,821	35,693	53,916
36,997	10,686	191,803	6,371	15,531	3,236	752	4,221	1,284	10,510
29,509	21,338	141,898	10,148	30,640	5,861	1,073	9,279	8,195	8,636
14,085	12,933	53,737	8,636	6,487	1,608	.....	3,890	1,200	.....
14,029	7,211	100,488	4,311	8,817	2,305	991	2,171	2,261	4,405
221,622	145,095	1,606,887	101,491	193,124	51,403	11,946	41,382	48,633	77,467
7,962	25,506	192,317	2,857	26,283	3,981	1,437	2,884	7,317	4,483
1,790	1,341	13,973	713	2,189	572	145	364	490	741

Municipal Electrical Utilities Financial

Northern Ontario Properties—Concluded

Municipality.....	North Bay	Port Arthur	Rainy River	Red Rock	Schreiber Twp.	Sioux Lookout
Population.....	23,361	43,384	1,140	1,772	2,210	2,692
<b>A. BALANCE SHEETS</b>						
<b>FIXED ASSETS</b>	\$	\$	\$	\$	\$	\$
Plant and facilities at cost.....	1,884,594	5,087,770	88,296	104,676	150,917	229,288
Accumulated depreciation.....	466,428	1,689,044	46,301	25,157	31,300	39,803
Net fixed assets.....	1,418,166	3,398,726	41,995	79,519	119,617	189,485
<b>CURRENT ASSETS</b>						
Cash on hand and in bank.....	100,861	449,566	13,233	9,856	8,299	11,966
Investment in government securities.....		99,208	14,730	10,398	24,927	5,000
Accounts receivable (Net).....	30,112	178,590	3,100	699	1,455	8,725
Total current assets.....	130,973	727,364	31,063	20,953	34,681	25,691
<b>OTHER ASSETS</b>						
Inventory of stores.....	34,689	205,648	1,349	1,738		7,455
Sinking fund on local debentures.....						
Miscellaneous.....	8,255	2,522		1,833		43
Total other assets.....	42,944	208,170	1,349	3,571		7,498
Equity in Ontario Hydro Systems.....	50,066	8,868,527		38,476	49,074	
	1,642,149	13,202,787	74,407	142,519	203,372	222,674
<b>LIABILITIES</b>						
Debentures outstanding.....	403,000		4,000	11,440		
Accounts payable.....	2,619	426,194	18	349	168	715
Other.....	79,959		260	160		5,429
Total liabilities.....	485,578	426,194	4,278	11,949	168	6,144
<b>RESERVES</b>						
Equity in Ontario Hydro Systems..	50,066	8,868,527		38,476	49,074	
Other.....	1,072	100,000				
Total reserves.....	51,138	8,968,527		38,476	49,074	
<b>CAPITAL</b>						
Debentures redeemed.....	329,158	626,317	22,087	19,760	50,000	
Local sinking fund.....						
Accumulated net income invested in plant or held as working funds.	776,275	3,181,749	48,042	72,334	104,130	216,530
Total capital.....	1,105,433	3,808,066	70,129	92,094	154,130	216,530
	1,642,149	13,202,787	74,407	142,519	203,372	222,674
<b>B. OPERATING STATEMENTS</b>						
<b>REVENUE</b>						
Sales of electric energy.....	952,392	1,831,495	58,239	39,150	58,425	135,930
Other.....	8,945	29,215	354	725	1,505	936
Total revenue.....	961,337	1,860,710	58,593	39,875	59,930	136,866
<b>EXPENSE</b>						
Power purchased.....	529,086	1,261,005	29,249	26,799	38,723	84,850
Local generation.....		24,413				
Operation and maintenance.....	102,887	190,737	10,713	2,452	5,341	18,067
Administration.....	116,412	138,588	8,248	3,977	7,991	16,731
Fixed charges—interest and principal	36,280	2,667	4,220	2,141		
—depreciation.....	47,198	129,221	2,968	2,913	3,915	5,796
—other.....						
Total expense.....	831,863	1,746,631	55,398	38,282	55,970	125,444
Net income or net expense.....	129,474	114,079	3,195	1,593	3,960	11,422
Number of customers.....	7,685	14,061	452	340	675	949

## Statements for the Year Ended December 31, 1961

South River	Sturgeon Falls	Sudbury	Terrace Bay Twp. 1,922	Thessalon	Webbwood	West Ferris Twp.	TOTAL NORTHERN ONTARIO PROPERTIES	TOTAL ALL SYSTEMS
1,032	6,328	79,281	1,922	1,788	560	5,428		
\$ 123,004 39,504	\$ 375,508 62,704	\$ 6,178,339 1,169,727	\$ 218,969 47,609	\$ 126,500 27,571	\$ 40,117 4,076	\$ 591,938 69,029	\$ 23,018,255 5,303,909	\$ 457,392,623 100,165,249
83,500	312,804	5,008,612	171,360	98,929	36,041	522,909	17,714,346	357,227,374
4,599	.....	1,375	.....	8,786	5,633	19,355	1,068,292	15,105,454
.....	.....	75,100	65,000	.....	.....	.....	656,548	14,672,152
1,509	30,273	239,084	536	1,899	1,090	4,902	685,389	14,190,953
6,108	30,273	315,559	65,536	10,685	6,723	24,257	2,410,229	43,968,559
.....	.....	153,677	.....	.....	.....	21,287	599,754	9,590,459
.....	.....	.....	.....	.....	.....	.....	.....	3,261,509
13,362	4,905	14,317	.....	3,456	1,623	9,995	138,211	2,643,494
13,362	4,905	167,994	.....	3,456	1,623	31,282	737,965	15,495,462
.....	8,535	34,228	77,904	2,666	116	1,694	14,330,757	282,255,861
<b>102,970</b>	<b>356,517</b>	<b>5,526,393</b>	<b>314,800</b>	<b>115,736</b>	<b>44,503</b>	<b>580,142</b>	<b>35,193,297</b>	<b>698,947,256</b>
90,000	109,000	557,000	35,100	51,500	23,154	356,550	3,159,209	81,812,075
1,782	36,199	764,765	4,658	2,012	25	589	1,397,740	12,594,844
10,829	18,267	156,992	.....	1,605	313	35,311	541,639	7,860,946
102,611	163,466	1,478,757	39,758	55,117	23,492	392,450	5,098,588	102,267,865
.....	8,535	34,228	77,904	2,666	116	1,694	14,330,757	282,255,861
.....	.....	14,165	.....	.....	.....	.....	115,237	2,468,637
.....	8,535	48,393	77,904	2,666	116	1,694	14,445,994	284,724,498
.....	26,000	933,840	42,900	13,500	6,845	60,950	3,218,223	84,572,157
.....	.....	.....	.....	.....	.....	.....	.....	3,261,509
359	158,516	3,065,403	154,238	44,453	14,050	125,048	12,430,492	224,121,227
359	184,516	3,999,243	197,138	57,953	20,895	185,998	15,648,715	311,954,893
<b>102,970</b>	<b>356,517</b>	<b>5,526,393</b>	<b>314,800</b>	<b>115,736</b>	<b>44,503</b>	<b>580,142</b>	<b>35,193,297</b>	<b>698,947,256</b>
9 Months' Operation 26,879 .....	158,487 330	2,602,347 65,969	58,350 4,622	62,580 132	18,639 .....	244,748 6,074	9,744,812 200,752	201,891,409 3,274,114
<b>26,879</b>	<b>158,817</b>	<b>2,668,316</b>	<b>62,972</b>	<b>62,712</b>	<b>18,639</b>	<b>250,822</b>	<b>9,945,564</b>	<b>205,165,523</b>
14,110	91,393	1,563,790	45,115	28,407	6,462	147,133	6,050,420 24,413	130,857,200 529,955
1,348	19,744	342,278	4,863	4,919	2,098	22,517	1,074,205	19,486,528
3,476	24,999	242,669	5,975	12,256	3,154	37,482	977,202	17,342,308
5,268	10,593	148,477	5,376	4,942	2,620	36,310	430,741	8,203,772
2,318	8,767	135,003	5,442	3,387	1,040	12,864	545,781	11,466,692
.....	.....	.....	.....	.....	.....	.....	.....	81,734
<b>26,520</b>	<b>155,496</b>	<b>2,432,217</b>	<b>66,771</b>	<b>53,911</b>	<b>15,374</b>	<b>256,306</b>	<b>9,102,762</b>	<b>187,968,189</b>
<b>359</b>	<b>3,321</b>	<b>236,099</b>	<b>3,799</b>	<b>8,801</b>	<b>3,265</b>	<b>5,484</b>	<b>842,802</b>	<b>17,197,334</b>
330	1,650	23,290	438	519	149	1,947	80,786	1,423,427

## INTRODUCTION TO STATEMENT "C" AND STATEMENT "D"

### STATEMENT "C"

Statement "C" is the schedule of resale rates for residential, commercial, and industrial power service in the municipal distribution systems receiving power from the Commission. From time to time as revision becomes necessary, these rates are adjusted to more up-to-date rate structures.

#### **Description of Classes of Service**

Residential rates are applicable to all electrical service for household purposes, with the exception of house heating and flat-rate water-heaters. Charges for normal residential service are based on specified blocks of kilowatt-hours per month with suitable rates for each block. The account is subject to a minimum monthly charge and to a prompt payment discount of 10 per cent. For comparative purposes, net monthly bills are shown for metered energy consumptions of 100, 300, and 500 kilowatt-hours per month.

The water-heater rates shown in Statement "C" are for unmetered flat-rate service which is billed at a monthly rate per 100 watts of heater capacity. In many municipalities the flat-rate water-heater load is subject to peak-load control by the utility. The customer, of course, has the option of paying for water heating at regular rates through the regular metered service. House-heating rates quoted are for separately metered consumption where an area greater than 25 per cent of the total is heated by electricity.

Commercial rates are applicable to all electrical service supplied to stores, offices, churches, schools, public buildings, institutions, hospitals, hotels, restaurants, service stations, and other premises used for commercial purposes. The commercial rates are also used for billing sign and display lighting. In most municipalities on the new rate structures, commercial-type customers having connected loads of less than five kilowatts are billed at residential rates. Rates for industrial power service to customers of the municipal systems provide for 24-hour unrestricted delivery at secondary distribution voltage. These rates, however, are not applicable to the Commission's direct industrial customers.

Commercial and industrial power service accounts consist of a monthly demand rate (with a minimum for commercial service) applied to the customer's billing demand, plus energy charges for specified blocks of kilowatt-hours used, the size of the blocks varying in accordance with the customer's billing demand. All additional energy is billed at the end rate per kilowatt-hour. Under the new rate structures the two specified blocks for industrial power service are twice as large as those under the former structures. The accounts are subject to a prompt payment discount



of 10 per cent. Industrial power service customers providing their own step-down transformation are granted, on the basis of their billing demand, an allowance of 27¢ per kilowatt per month gross for service at subtransmission voltage and 17¢ per kilowatt per month gross for service at primary distribution voltage. The net monthly bills shown for commercial and industrial power service are calculated on the basis of a demand of one kilowatt for a use per month of 100, 200, and 300 hours. The corresponding bill for a demand of 10 kilowatts would be ten times the amounts shown, for 20 kilowatts twenty times the amounts shown, and so on.

## **STATEMENT "D"**

Statement "D" records revenue, consumption, number of customers, average consumption per customer, and average cost per kilowatt-hour for each of the three main classes of service in all the municipal systems served. The revenue and consumption from house heating and the use of flat-rate water-heaters are included in the totals shown, the flat-rate water-heater kilowatt-hours being estimated on the basis of 16.8 hours' use per day.

When a municipal utility adopts the new rate structures, a substantial number of commercial service customers having small connected loads (under 5 kilowatts) may be transferred to residential service billing, and certain small industrial power service customers may be reclassified under commercial service. In order to correct distortions in the calculation of average consumption per customer that would result from these changes, estimated averages are substituted for the arithmetic averages in the year the changes are made.

The average cost per kilowatt-hour is the average cost to the customer, that is the average revenue per kilowatt-hour received by the utility. Such a statistical average does not represent the utility's actual cost of delivering one kilowatt-hour. However, a comparison of this average over a number of years is some indication of the trend of cost in any one municipality, and the trend in all municipal systems combined may be seen in the table on page 176 and the graphs on page 177. Other things being equal, the average cost per kilowatt-hour would rise with an increase in rates. The normal trend, however, is for consumption per customer to increase, and residential customers in particular are using an ever-widening variety of electrical appliances, including flat-rate water-heaters. This increased use, since it is billed at the low rates usually applicable to higher-consumption blocks of kilowatt-hours, is frequently reflected in a lower average cost per kilowatt-hour.

For industrial power service customers, the relationship between demand (kilowatts required) and energy (kilowatt-hours of use) is an important factor in establishing the customer's average cost per kilowatt-hour. The use of the demand for only a few hours will result in a relatively small total bill but a high average cost per kilowatt-hour; the use of the same demand for several hours will increase the total bill but substantially reduce the average cost per kilowatt-hour. In other words, the average cost per kilowatt-hour varies inversely with the customer's load factor.

# Municipal Electrical RATES AND TYPICAL BILLS in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Acton.....	41	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Ailsa Craig.....	45	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Ajax.....	37	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Alexandria.....	40	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alfred.....	42	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Alliston.....	40	1.5	60	3.1	....	....	1.0	2.03	3.83	5.63
Almonte.....	35	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Alvinston.....	45	1.5	60	3.5	....	....	1.0	2.25	4.05	5.85
Amherstburg.....	38	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Ancaster Twp. (including Ancaster).....	43	1.5	60	4.2	....	....	1.2	2.70	4.86	7.02
Apple Hill.....	56	....	60	4.0	....	....	1.0	2.52	4.32	6.12
Arkona.....	43	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Arnprior.....	37	1.5	50	2.6	1.3	....	0.8	1.75	3.87	5.31
Arthur.....	42	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Athens.....	40	1.67	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Atikokan.....	40	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Aurora.....	37	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Avonmore.....	40	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Aylmer.....	36	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Ayr.....	44	1.5	60	2.9	....	....	1.0	1.93	3.73	5.53
Baden.....	40	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
†Bala.....	41	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Bancroft.....	53	1.5	60	3.5	....	....	1.3	2.36	4.70	7.04
Barrie.....	40	1.5	60	2.4	....	....	1.0	1.66	3.46	5.26
Barry's Bay.....	42	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Bath.....	39	1.5	60	3.5	....	....	1.2	2.32	4.48	6.64
Beachburg.....	39	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Beachville.....	42	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Beamsville.....	41	1.5	60	2.7	....	....	1.2	1.89	4.05	6.21
†Beardmore.....	45	1.5	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Beaverton.....	40	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Beeton.....	45	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Belle River.....	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Belleville.....	35	1.5	50	2.0	....	....	1.0	1.35	3.15	4.95
Blenheim.....	44	1.5	50	3.0	1.5	....	0.9	2.02	4.45	6.07
†Blind River.....	45	1.5	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Bloomfield.....	42	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Blyth.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Bobcaygeon.....	40	1.5	60	3.4	....	....	1.2	2.27	4.43	6.59
Bolton.....	45	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE											
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand			First 100 hours	Next 100 hours	All addi- tional hours
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours			
¢6	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$			
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54			
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09			
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27			
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27			
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45			
2.6	...	1.0	2.79	3.69	4.59	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06			
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.1	...	0.5	0.33	1.89	2.34	2.64			
3.0	...	0.9	3.15	3.96	4.77	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88			
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63			
3.6	...	1.0	3.69	4.59	5.49	1.35	2.9	...	1.9	...	0.33	3.37	3.67	3.97			
3.5	...	1.0	3.60	4.50	5.40	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88			
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81			
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09			
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27			
¢1.5	0.8	0.5	1.80	2.52	2.97	1.00	...	1.0	...	0.5	0.33	1.80	2.25	2.55			
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45			
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54			
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45			
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91			
2.4	...	0.9	2.61	3.42	4.23	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19			
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	...	0.5	0.33	2.43	2.88	3.18			
4.2	0.8	0.5	4.23	4.95	5.40	1.00	...	2.7	...	0.5	0.33	3.33	3.78	4.08			
3.0	...	1.2	3.15	4.23	5.31	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19			
2.0	...	0.8	2.25	2.97	3.69	1.00	1.4	...	0.9	...	0.25	1.93	2.16	2.38			
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91			
3.0	...	1.2	3.15	4.23	5.31	1.35	3.5	...	2.3	...	0.33	3.82	4.12	4.42			
¢3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.6	...	0.5	0.33	3.24	3.69	3.99			
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36			
2.3	...	1.1	2.52	3.51	4.50	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06			
¢3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	...	0.5	0.33	3.51	3.96	4.26			
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09			
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	...	0.5	0.33	2.97	3.42	3.72			
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63			
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.2	...	0.5	0.33	1.98	2.43	2.73			
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63			
¢3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.7	...	0.5	0.33	3.33	3.78	4.08			
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09			
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45			
2.9	...	1.0	3.06	3.96	4.86	1.35	2.3	...	1.5	...	0.33	2.92	3.22	3.52			
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54			

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢ No.	¢	¢	¢	¢	¢	\$	\$	\$
Bothwell . . . . .	45	1.5 50	2.6 1.3	....	1.0	1.75 3.96	5.76			
Bowmanville . . . . .	35	1.5 50	2.4 1.2	0.7	1.0	1.62 3.55	4.81			
Bracebridge . . . . .	39	1.5 60	3.0	....	1.2	2.05 4.21	6.37			
Bradford . . . . .	40	1.5 50	2.8 1.4	0.8	1.1	1.89 4.14	5.58			
Braeside . . . . .	36	1.5 50	2.6 1.3	....	1.1	1.75 4.00	5.98			
Brampton . . . . .	37	1.5 50	3.2 1.6	1.0	1.4	2.16 4.77	6.57			
Brantford . . . . .	41	1.5 60	2.2	....	1.2	1.62 3.78	5.94			
§Brantford Twp. . . . .	42	1.5 50	4.0 2.0	1.2	1.6	2.70 5.94	8.10			
Brechin . . . . .	40	1.5 50	2.2 1.1	0.7	1.0	1.48 3.28	4.54			
Bridgeport . . . . .	40	1.5 50	3.0 1.5	0.9	1.2	2.02 4.45	6.07			
Brigden . . . . .	45	1.5 50	2.6 1.3	0.7	1.0	1.75 3.82	5.08			
Brighton . . . . .	39	1.5 50	2.6 1.3	0.7	1.0	1.75 3.82	5.08			
Brockville . . . . .	38	1.5 60	2.0	....	1.0	1.44 3.24	5.04			
Brussels . . . . .	45	1.5 50	3.2 1.6	0.9	1.3	2.16 4.72	6.34			
Burford . . . . .	43	1.5 50	3.0 1.5	0.9	1.2	2.02 4.45	6.07			
Burgessville . . . . .	43	1.5 60	4.0	....	1.0	2.52 4.32	6.12			
Burk's Falls . . . . .	45	1.5 50	3.4 1.7	1.0	1.4	2.29 5.04	6.84			
§Burlington . . . . .	42	1.5 50	4.0 2.0	1.2	1.6	2.70 5.94	8.10			
Cache Bay . . . . .	43	1.5 50	3.6 1.8	1.1	1.5	2.43 5.35	7.33			
Caledonia . . . . .	43	1.5 60	2.4	....	1.2	1.73 3.89	6.05			
Campbellford . . . . .	38	1.5 50	2.6 1.3	0.7	1.0	1.75 3.82	5.08			
Campbellville . . . . .	45	.... 60	3.0	....	1.3	2.09 4.43	6.77			
Cannington . . . . .	48	1.5 60	3.2	....	1.0	2.09 3.89	5.69			
Capreol . . . . .	43	1.5 60	3.5	....	1.3	2.36 4.70	7.04			
Cardinal . . . . .	40	1.5 50	2.6 1.3	0.8	1.1	1.75 3.87	5.31			
Carleton Place . . . . .	39	1.5 50	3.2 1.6	1.0	1.4	2.16 4.77	6.57			
Casselman . . . . .	41	1.5 50	3.4 1.7	....	1.0	2.29 5.04	6.84			
Cayuga . . . . .	42	.... 50	2.8 1.4	0.8	1.1	1.89 4.14	5.58			
Chalk River . . . . .	38	1.5 50	2.6 1.3	0.8	1.1	1.75 3.87	5.31			
Chapleau Twp. . . . .	....	.... 60	9.0	....	4.0	6.30 13.50	20.70			
Chatham . . . . .	41	1.5 60	3.8	....	1.4	2.56 5.08	7.60			
Chatsworth . . . . .	46	1.5 50	2.8 1.4	0.8	1.1	1.89 4.14	5.58			
Chesley . . . . .	41	1.5 60	2.7	....	1.0	1.82 3.62	5.42			
Chesterville . . . . .	41	1.5 50	2.6 1.3	....	0.8	1.75 3.87	5.31			
Chippawa . . . . .	40	1.5 60	3.1	....	1.4	2.18 4.70	7.22			
Clifford . . . . .	45	1.5 50	3.0 1.5	0.9	1.2	2.02 4.45	6.07			
Clinton . . . . .	41	1.5 50	3.0 1.5	0.9	1.2	2.02 4.45	6.07			
†Cobalt . . . . .	42	1.5 50	4.0 2.0	1.1	1.6	2.70 5.89	7.87			
Cobden . . . . .	36	1.5 50	2.0 1.0	0.7	1.0	1.35 3.01	4.27			
Cobourg . . . . .	41	1.5 50	2.6 1.3	0.8	1.1	1.75 3.87	5.31			

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
2.0	...	1.0	2.25	3.15	4.05	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
1.8	...	0.7	2.07	2.70	3.33	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
¢1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
1.7	...	0.8	1.98	2.70	3.42	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
3.5	...	0.8	3.60	4.32	5.04	1.35	2.9	....	1.9	....	0.33	3.37	3.67	3.97
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
¢3.5	0.8	0.5	3.60	4.32	4.77	1.00	...	3.0	....	0.5	0.33	3.60	4.05	4.35
1.9	...	1.1	2.16	3.15	4.14	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64
2.8	...	1.1	2.97	3.96	4.95	1.35	3.5	....	2.3	....	0.33	3.82	4.12	4.42
2.8	...	0.9	2.97	3.78	4.59	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
3.0	...	1.1	3.15	4.14	5.13	1.35	2.9	....	1.9	....	0.33	3.37	3.67	3.97
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
8.5	...	4.0	8.10	11.70	15.30	1.35	5.7	....	3.8	....	2.00	5.49	7.29	9.09
3.3	...	1.2	3.42	4.50	5.58	1.35	2.0	....	1.3	....	0.40	2.70	3.00	3.29
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.3	...	1.0	2.52	3.42	4.32	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.6	...	1.3	2.79	3.96	5.13	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
¢3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
¢2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73

# Municipal Electrical RATES AND TYPICAL BILLS in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Cochrane.....	35	1.5	60	3.4	....	....	1.5	2.38	5.08	7.78
Colborne.....	43	1.5	60	3.8	....	....	1.0	2.41	4.21	6.01
Coldwater.....	40	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Collingwood.....	41	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Comber.....	45	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Coniston.....	42	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Cookstown.....	45	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Cottam.....	41	....	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Courtright.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Creemore.....	44	1.5	50	3.1	....	....	1.0	1.84	3.64	5.44
Dashwood.....	45	....	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Deep River.....	40	1.5	50	3.4	1.7	....	0.9	2.29	4.99	6.61
Delaware.....	44	1.5	60	3.8	....	....	1.4	2.56	5.08	7.60
Delhi.....	43	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Deseronto.....	40	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Dorchester.....	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Drayton.....	44	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Dresden.....	44	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Drumbo.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dryden.....	35	1.5	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Dublin.....	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dundalk.....	44	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Dundas.....	40	1.5	60	2.8	....	....	1.1	1.91	3.89	5.87
Dunnville.....	45	1.5	50	2.8	1.4	....	0.9	1.89	4.18	5.80
Durham.....	41	1.5	60	2.7	....	....	1.1	1.85	3.83	5.81
Dutton.....	47	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
East York Twp.....	37	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Eganville.....	42	1.5	60	4.3	....	....	1.1	2.72	4.70	6.68
†Elk Lake Townsite.....	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Elmira.....	45	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Elmvale.....	40	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Elmwood.....	39	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Elora.....	44	1.5	60	3.2	....	....	1.4	2.23	4.75	7.27
Embro.....	44	1.5	60	3.3	....	....	1.1	2.18	4.16	6.14
†Englehart.....	42	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Erieau.....	45	1.5	50	2.8	1.4	....	0.8	1.89	4.14	5.58
Erie Beach.....	45	1.5	50	4.0	2.0	....	1.1	2.70	5.89	7.87
Erin.....	40	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Espanola.....	40	1.5	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Essex.....	43	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kw for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kw for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.9	...	1.4	3.06	4.32	5.58	1.35	2.3	....	1.5	....	0.33	2.92	3.22	3.52
3.0	...	1.0	3.15	4.05	4.95	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88
°2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
°1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.6	...	0.9	2.79	3.60	4.41	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
°3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
3.4	...	1.4	3.51	4.77	6.03	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
°2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
°2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
°2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
°3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.6	....	0.5	0.33	3.24	3.69	3.99
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.3	...	1.0	2.52	3.42	4.32	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.4	...	1.0	2.61	3.51	4.41	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
°2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
3.8	...	1.0	3.87	4.77	5.67	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
°3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
°2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
°2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
2.8	...	1.4	2.97	4.23	5.49	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
2.7	...	0.7	2.88	3.51	4.14	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
°3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
°3.5	0.8	0.5	3.60	4.32	4.77	1.00	...	2.6	....	0.5	0.33	3.24	3.69	3.99
°2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
°2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
°2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Etobicoke Twp. (including Thistleton)	40	1.5	60	4.0	....	....	1.0	2.52	4.32	6.12
Exeter.....	45	1.5	60	3.0	....	....	1.3	2.09	4.43	6.77
Fergus.....	41	1.5	60	3.3	....	....	1.3	2.25	4.59	6.93
Finch.....	42	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Flesherton.....	37	1.5	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Fonthill.....	41	1.5	60	3.0	....	....	1.3	2.09	4.43	6.77
Forest.....	41	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Forest Hill.....	37	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Fort William.....	31	1.5	60	2.0	....	....	0.8	1.37	2.81	4.25
Frankford.....	36	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Galt.....	36	1.5	60	3.0	....	....	1.1	2.02	4.00	5.98
Georgetown.....	39	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Glen Williams.....	39	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
†Geraldton.....	45	1.5	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Glencoe.....	45	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Goderich.....	42	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
†Gogama.....	45	1.5	50	7.0	3.5	....	1.6	4.72	10.17	13.05
Grand Bend.....	45	1.5	60	4.4	....	....	1.5	2.92	5.62	8.32
Grand Valley.....	50	1.5	60	3.0	....	....	1.2	2.05	4.21	6.37
Granton.....	50	....	60	3.9	....	....	1.4	2.61	5.13	7.65
Gravenhurst.....	40	1.5	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Grimsby.....	43	1.5	60	2.5	....	....	1.1	1.75	3.73	5.71
Guelph.....	34	1.5	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Hagersville.....	41	1.5	60	2.8	....	....	1.1	1.91	3.89	5.87
†Haileybury.....	42	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Hamilton.....	43	1.5	60	2.6	....	....	1.1	1.80	3.78	5.76
Hanover.....	38	1.5	60	2.2	....	....	1.0	1.55	3.35	5.15
Harriston.....	39	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Harrow.....	38	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Hastings.....	38	1.5	50	2.4	1.2	0.7	1.0	2.00	3.55	4.81
Havelock.....	40	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Hawkesbury.....	36	1.5	50	3.4	1.7	0.9	1.4	2.29	4.99	6.61
Hearst.....	55	1.5	50	4.6	2.3	1.3	1.6	3.10	6.79	9.13
Hensall.....	45	1.5	60	3.2	....	....	1.0	2.09	3.89	5.69
†Hepworth.....	45	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Hespeler.....	42	1.5	60	3.2	....	....	1.1	2.12	4.10	6.08
Highgate.....	45	1.5	60	3.2	....	....	0.9	2.05	3.67	5.29
Holstein.....	41	1.5	60	3.0	....	....	1.0	1.98	3.78	5.58
†Hornepayne.....	60	....	60	8.0	....	....	2.0	5.04	8.64	12.24
†Hudson Townsite.....	45	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Huntsville.....	41	1.5	60	2.4	....	....	1.2	1.73	3.89	6.05

†Local system  
For explanatory notes and water-heating schedules see pages 252 to 255.



# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE									
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand			
Energy rate per kwh for use of each kw of demand															
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	\$	\$	\$		
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
2.6	...	0.8	2.79	3.51	4.23	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19	
2.8	...	1.1	2.97	3.96	4.95	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	....	0.5	0.33	1.80	2.25	2.55	
2.5	...	1.2	2.70	3.78	4.86	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65	
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82	
1.9	...	0.4	2.16	2.52	2.88	1.00	1.4	....	0.9	....	0.25	1.93	2.16	2.38	
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64	
2.5	...	1.0	2.70	3.60	4.50	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
¢3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	....	0.5	0.33	3.51	3.96	4.26	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
5.8	0.8	0.5	5.67	6.39	6.84	1.00	...	5.1	....	0.5	0.33	5.49	5.94	6.24	
3.9	...	1.3	3.96	5.13	6.30	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10	
2.5	...	1.2	2.70	3.78	4.86	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19	
3.4	...	1.3	3.51	4.68	5.85	1.35	2.6	....	1.7	....	0.33	3.15	3.45	3.74	
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64	
2.0	...	1.0	2.25	3.15	4.05	1.20	1.7	....	1.2	...	0.30	2.38	2.65	2.92	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
2.3	...	0.9	2.52	3.33	4.14	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92	
¢3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
¢1.9	...	0.7	2.16	2.79	3.42	1.00	1.4	....	0.9	....	0.40	1.93	2.29	2.65	
1.7	...	1.0	1.98	2.88	3.78	1.00	1.5	....	0.9	...	0.30	1.98	2.25	2.52	
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45	
¢2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.2	....	0.5	0.33	3.78	4.23	4.53	
2.7	...	0.9	2.88	3.69	4.50	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19	
¢3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
2.6	...	0.9	2.79	3.60	4.41	1.20	1.6	....	1.0	....	0.33	2.25	2.55	2.84	
2.8	...	0.7	2.97	3.60	4.23	1.35	2.6	....	1.7	...	0.33	3.15	3.45	3.74	
2.5	...	0.8	2.70	3.42	4.14	1.35	3.5	....	2.3	...	0.33	3.82	4.12	4.42	
7.5	...	2.0	7.20	9.00	10.80	1.35	4.9	....	3.3	...	0.33	4.90	5.20	5.50	
¢3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71	
2.2	...	1.1	2.43	3.42	4.41	1.20	1.6	....	1.0	...	0.30	2.25	2.52	2.79	

# Municipal Electrical RATES AND TYPICAL BILLS in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Ingersoll . . . . .	43	1.5	60	3.4	....	....	1.3	2.30	4.64	6.98
Iroquois . . . . .	40	1.5	50	2.8	1.4	....	1.0	1.89	4.23	6.03
Jarvis . . . . .	45	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
†Jellicoe Townsite . . . . .	45	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Kapuskasing . . . . .	35	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
†Kearns Townsite . . . . .	45	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kemptville . . . . .	40	1.5	50	3.0	1.5	....	0.9	2.02	4.45	6.07
Killaloe Station . . . . .	42	1.5	50	4.2	2.1	1.2	1.6	2.83	6.21	8.37
Kincardine . . . . .	43	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
†King Kirkland Townsite . . . . .	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kingston . . . . .	38	1.5	60	1.8	....	....	0.9	1.30	2.92	4.54
Kingsville . . . . .	40	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Kirkfield . . . . .	45	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Kirkland Lake (including Swastika) . . . . .	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Kitchener . . . . .	39	1.5	60	2.6	....	....	1.3	1.87	4.21	6.55
Lakefield . . . . .	34	1.5	55	2.8	....	....	1.0	1.79	3.59	5.39
Lambeth . . . . .	43	1.5	60	3.5	....	....	1.3	2.36	4.70	7.04
Lanark . . . . .	39	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Lancaster . . . . .	39	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Larder Lake Twp. . . . .	43	1.5	60	3.5	....	....	1.1	2.29	4.27	6.25
Latchford . . . . .	43	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Leamington . . . . .	41	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Lindsay . . . . .	41	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Listowel . . . . .	41	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
London . . . . .	38	1.5	50	3.0	1.5	....	1.0	2.02	4.50	6.30
Long Branch . . . . .	41	1.5	60	3.1	....	....	1.2	2.11	4.27	6.43
L'Orignal . . . . .	40	1.5	50	3.8	1.9	1.1	1.5	2.56	5.62	7.60
Lucan . . . . .	45	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Lucknow . . . . .	45	1.5	55	2.7	....	....	1.0	1.75	3.55	5.35
Lynden . . . . .	43	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Madoc . . . . .	40	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Magnetawan . . . . .	45	1.5	50	4.2	2.1	1.2	1.6	2.83	6.21	8.37
Markdale . . . . .	45	1.5	60	2.5	....	....	1.0	1.71	3.51	5.31
Markham . . . . .	44	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Marmora . . . . .	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Martintown . . . . .	38	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Massey . . . . .	45	1.5	50	5.0	2.5	1.4	1.6	3.37	7.38	9.90
†Matachewan Twp. . . . .	45	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
†Matheson . . . . .	45	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
†Mattawa . . . . .	45	1.5	50	5.2	2.6	....	1.6	3.51	7.74	10.62

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.

# Utilities and Local Systems

## FOR ELECTRICAL SERVICE

### December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE									
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand			
Energy rate per kwh for use of each kw of demand							First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours	
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours										
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$	
2.8	...	0.8	2.97	3.69	4.41	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72	
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71	
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
1.5	...	0.9	1.80	2.61	3.42	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65	
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
2.3	...	1.0	2.52	3.42	4.32	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19	
2.4	...	0.8	2.61	3.33	4.05	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92	
3.1	...	1.1	3.24	4.23	5.22	1.35	4.1	....	2.7	....	0.33	4.27	4.57	4.87	
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91	
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
3.0	...	1.0	3.15	4.05	4.95	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10	
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.2	...	0.8	2.43	3.15	3.87	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88	
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
3.7	0.8	0.5	3.78	4.50	4.95	1.00	...	2.8	....	0.5	0.33	3.42	3.87	4.17	
2.0	...	1.0	2.25	3.15	4.05	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
4.4	0.8	0.5	4.41	5.13	5.58	1.00	...	3.1	....	0.5	0.33	3.69	4.14	4.44	
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
5.2	0.8	0.5	5.13	5.85	6.30	1.00	...	3.2	....	0.5	0.33	3.78	4.23	4.53	

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Maxville.....	43	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
McGarry.....	40	1.5	60	3.5	....	....	1.1	2.29	4.27	6.25
Meaford.....	42	1.5	60	2.6	....	....	1.0	1.76	3.56	5.36
Merlin.....	44	1.5	60	3.1	....	....	1.0	2.03	3.83	5.63
Merrickville.....	38	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Midland.....	39	1.5	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Mildmay.....	40	1.5	60	2.5	....	....	1.0	1.71	3.51	5.31
Millbrook.....	41	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Milton.....	43	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Milverton.....	45	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Mimico.....	37	1.5	50	2.6	1.3	....	0.9	1.75	3.91	5.53
Mitchell.....	40	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Moorefield.....	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Morrisburg.....	40	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Mount Brydges.....	41	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Mount Forest.....	39	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Napanee.....	38	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Neustadt.....	37	1.5	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Newboro.....	38	1.5	50	3.8	1.9	....	1.0	2.56	5.58	7.38
Newburgh.....	40	1.5	60	4.3	....	....	1.2	2.75	4.91	7.07
Newbury.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Newcastle.....	42	1.5	50	2.8	1.4	....	1.0	1.89	4.23	6.03
New Hamburg.....	39	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
†New Liskeard.....	42	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Newmarket.....	40	1.5	60	2.5	....	....	1.0	1.71	3.51	5.31
New Toronto.....	37	1.5	60	2.6	....	....	1.2	1.84	4.00	6.16
Niagara.....	42	1.5	60	3.0	....	....	1.4	2.12	4.64	7.16
Niagara Falls.....	40	1.5	50	3.5	1.4	....	0.7	2.20	4.41	5.67
Nipigon Twp.....	30	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
North Bay.....	42	1.5	60	2.5	....	....	1.2	1.78	3.94	6.10
North York Twp.....	37	1.5	50	3.4	1.7	....	1.0	2.29	5.04	6.84
Norwich.....	46	....	60	3.4	....	....	1.2	2.27	4.43	6.59
Norwood.....	42	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Oakville-Trafalgar.....	37	1.5	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Oil Springs.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Omeme.....	41	1.5	60	3.3	....	....	1.0	2.14	3.94	5.74
Orangeville.....	43	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Orillia.....	36	1.5	60	2.3	....	....	0.9	1.57	3.19	4.81
Orono.....	38	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Oshawa.....	34	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.



# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand							First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours									
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
3.0	...	1.0	3.15	4.05	4.95	1.35	3.1	...	2.0	...	0.33	3.51	3.81	4.10
2.2	...	0.8	2.43	3.15	3.87	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
2.6	...	0.7	2.79	3.42	4.05	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.1	...	0.5	0.33	1.89	2.34	2.64
1.5	0.8	0.5	1.80	2.52	2.97	1.00	...	0.8	...	0.5	0.33	1.62	2.07	2.37
2.0	...	0.9	2.25	3.06	3.87	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	...	0.5	0.33	2.25	2.70	3.00
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.3	...	0.5	0.33	2.97	3.42	3.72
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.3	...	0.5	0.33	2.07	2.52	2.82
1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	...	0.5	0.33	1.80	2.25	2.55
3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
3.8	...	1.2	3.87	4.95	6.03	1.35	2.5	...	1.6	...	0.33	3.06	3.36	3.66
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81
2.2	...	1.0	2.43	3.33	4.23	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
2.5	...	1.2	2.70	3.78	4.86	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	...	0.5	0.33	2.25	2.70	3.00
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.2	...	0.5	0.33	1.98	2.43	2.73
2.0	...	0.9	2.25	3.06	3.87	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	...	0.5	0.33	2.43	2.88	3.18
3.0	...	1.0	3.15	4.05	4.95	1.35	2.5	...	1.6	...	0.33	3.06	3.36	3.66
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	...	0.5	0.33	2.34	2.79	3.09
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
2.8	...	0.8	2.97	3.69	4.41	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
1.8	...	0.8	2.07	2.79	3.51	1.00	1.4	...	0.9	...	0.30	1.93	2.20	2.47
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.7	...	0.5	0.33	2.43	2.88	3.18
1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.2	...	0.5	0.33	1.98	2.43	2.73

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Ottawa (including East- view and Rockliffe Park).....	32	....	a { 60	* { 2.0	....	....	*0.5	1.74	3.02	3.92
			60	1.0						
Otterville.....	43	1.5	60	3.0	....	....	1.0	1.98	3.78	5.58
Owen Sound.....	38	1.5	60	2.4	....	....	1.1	1.69	3.67	5.65
Paisley.....	45	1.5	60	3.5	....	....	1.0	2.25	4.05	5.85
Palmerston.....	44	1.5	60	2.6	....	....	1.0	1.76	3.56	5.36
Paris.....	42	1.5	60	2.8	....	....	1.3	1.98	4.32	6.66
Parkhill.....	44	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Parry Sound.....	42	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Penetanguishene.....	37	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Perth.....	37	1.5	50	2.8	1.4	....	1.0	1.89	4.23	6.03
Peterborough.....	36	1.5	60	2.6	....	....	1.3	1.87	4.21	6.55
Petrolia.....	45	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Pickering.....	37	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
†Pickle Lake Landing Townsite.....	45	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Pictou.....	41	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Plattsville.....	42	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Point Edward.....	38	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Port Arthur.....	34	1.5	60	2.0	....	....	0.8	1.37	2.81	4.25
Port Burwell.....	45	....	50	4.4	2.2	1.3	1.6	2.97	6.52	8.86
†Port Carling.....	41	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Port Colborne.....	41	1.5	60	2.8	....	....	1.2	1.94	4.10	6.26
Port Credit.....	38	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Port Dover.....	44	1.5	60	2.4	....	....	1.2	1.73	3.89	6.05
Port Elgin.....	45	1.5	60	3.5	....	....	1.3	2.36	4.70	7.04
Port Hope.....	40	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Port McNicoll.....	39	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Port Perry.....	41	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Port Rowan.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Port Stanley.....	45	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Powassan.....	42	1.5	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Prescott.....	37	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Preston.....	36	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Priceville.....	47	1.5	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Princeton.....	45	1.5	60	3.0	....	....	1.0	1.98	3.78	5.58
Queenston.....	40	1.5	50	2.6	1.3	....	0.8	1.75	3.87	5.31
Rainy River.....	57	1.5	50	6.0	3.0	....	1.6	4.05	8.82	11.70
†Red Lake Twp.....	45	1.5	50	4.4	2.2	1.2	1.6	2.97	6.48	8.64
Red Rock.....	32	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Renfrew.....	36	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Richmond.....	35	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85

†Local system  
For explanatory notes and water-heating schedules see pages 252 to 255.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand							First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours									
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.5	...	0.8	2.70	3.42	4.14	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
2.0	0.8	0.5	2.25	2.97	3.42	1.00	1.5	....	1.1	....	0.30	2.07	2.34	2.61
3.0	...	1.0	3.15	4.05	4.95	1.35	2.6	....	1.7	....	0.33	3.15	3.45	3.74
2.2	...	0.8	2.43	3.15	3.87	1.20	1.6	....	1.0	....	0.30	2.25	2.52	2.79
2.3	...	0.8	2.52	3.24	3.96	1.00	1.5	....	1.1	....	0.30	2.07	2.34	2.61
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.2	....	0.5	0.33	2.88	3.33	3.63
2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.0	....	0.5	0.33	1.80	2.25	2.55
2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
2.1	...	1.2	2.34	3.42	4.50	1.20	1.4	....	0.9	....	0.30	2.11	2.38	2.65
3.2	0.8	0.5	3.33	4.05	4.50	1.00	...	2.7	....	0.5	0.33	3.33	3.78	4.08
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
1.9	...	0.4	2.16	2.52	2.88	1.00	1.4	....	0.9	....	0.25	1.93	2.16	2.38
3.4	0.8	0.5	3.51	4.23	4.68	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90
4.2	0.8	0.5	4.23	4.95	5.40	1.00	...	2.7	....	0.5	0.33	3.33	3.78	4.08
2.5	...	1.1	2.70	3.69	4.68	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06
2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.0	...	1.0	2.25	3.15	4.05	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92
2.8	...	1.0	2.97	3.87	4.77	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81
3.4	0.8	0.5	3.51	4.23	4.68	1.00	...	2.7	....	0.5	0.33	3.33	3.78	4.08
2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
3.8	0.8	0.5	3.87	4.59	5.04	1.00	...	2.9	....	0.5	0.33	3.51	3.96	4.26
2.7	...	0.8	2.88	3.60	4.32	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19
2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
5.0	0.8	0.5	4.95	5.67	6.12	1.00	...	4.0	....	0.8	0.50	4.50	5.22	5.67
3.9	0.8	0.5	3.96	4.68	5.13	1.00	...	3.4	....	0.5	0.33	3.96	4.41	4.71
1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	0.9	....	0.5	0.33	1.71	2.16	2.46
1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73
2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

Rates are quoted on a monthly basis and  
and a minimum

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Richmond Hill.....	40	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Ridgetown.....	45	1.5	60	2.9	.....	.....	1.1	1.96	3.94	5.92
Ripley.....	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Riverside.....	36	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Rockland.....	36	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Rockwood.....	45	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Rodney.....	45	1.5	60	2.5	.....	.....	1.0	1.71	3.51	5.31
Rosseau.....	43	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Russell.....	36	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
St. Catharines.....	42	□	60	2.7	.....	.....	1.5	2.00	4.70	7.40
St. Clair Beach.....	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
St. George.....	44	1.5	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
St. Jacobs.....	42	1.5	60	3.0	.....	.....	1.1	2.02	4.00	5.98
St. Mary's.....	43	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
St. Thomas.....	40	1.5	50	3.2	1.6	.....	1.3	2.16	4.90	7.24
Sandwich East Twp.....	41	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Sandwich West Twp.....	41	1.5	50	4.0	2.0	.....	1.0	2.70	5.85	7.65
Sarnia.....	40	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Scarborough Twp.....	37	1.5	50	3.0	1.5	.....	1.0	2.00	4.50	6.30
Schreiber Twp.....	31	1.5	50	2.0	1.0	0.7	1.0	1.35	3.01	4.27
Seaforth.....	36	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Shelburne.....	43	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Simcoe.....	41	1.5	50	2.2	1.1	0.7	1.0	1.48	3.28	4.54
Sioux Lookout.....	53	1.5	60	4.0	.....	.....	1.5	2.70	5.40	8.10
Smith's Falls.....	38	1.5	60	2.6	.....	.....	1.0	1.76	3.56	5.36
Smithville.....	44	1.5	60	3.2	.....	.....	1.2	2.16	4.32	6.48
Southampton.....	45	1.5	50	3.2	.....	.....	1.1	1.93	3.91	5.89
†South Porcupine Townsite.....	42	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
South River.....	45	1.5	50	6.0	3.0	.....	1.6	4.05	8.82	11.70
Springfield.....	41	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Stamford Twp.....	40	1.5	60	3.2	.....	.....	1.4	2.23	4.75	7.27
Stayner.....	41	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Stirling.....	38	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Stoney Creek.....	41	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Stouffville.....	44	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Stratford.....	40	1.5	60	2.9	.....	.....	1.2	2.00	4.16	6.32
Strathroy.....	37	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Streetsville.....	43	1.5	60	2.9	.....	.....	1.3	2.03	4.37	6.71
Sturgeon Falls.....	40	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Sudbury.....	37	1.5	60	2.6	.....	.....	1.2	1.84	4.00	6.16

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE									
Demand rate per 100 watts : 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand			
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All additional hours	100 hours	200 hours	300 hours	
First 100 hours	Next 100 hours	All additional hours													
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$	
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
2.4	...	0.9	2.61	3.42	4.23	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82	
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72	
2.2	...	0.8	2.43	3.15	3.87	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43	
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54	
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	1.1	....	0.5	0.33	1.89	2.34	2.64	
¢2.3	...	1.1	2.52	3.51	4.50	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72	
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
2.5	...	1.0	2.70	3.60	4.50	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92	
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
¢3.5	0.8	0.5	3.60	4.32	4.77	1.00	...	3.0	....	0.5	0.33	3.60	4.05	4.35	
¢3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.6	....	0.5	0.33	3.24	3.69	3.99	
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27	
¢1.7	0.8	0.5	1.98	2.70	3.15	1.00	...	1.2	....	0.5	0.33	1.98	2.43	2.73	
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09	
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00	
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91	
3.5	...	2.0	3.60	5.40	7.20	1.35	2.8	....	1.8	....	0.33	3.28	3.58	3.88	
2.0	...	0.7	2.25	2.88	3.51	1.00	1.5	....	1.1	....	0.25	2.07	2.29	2.52	
2.8	...	1.1	2.97	3.96	4.95	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65	
2.9	...	1.1	3.06	4.05	5.04	1.35	2.2	....	1.4	....	0.33	2.83	3.13	3.43	
¢3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	....	0.5	0.33	3.06	3.51	3.81	
¢5.3	0.8	0.5	5.22	5.94	6.39	1.00	...	4.5	....	0.5	0.33	4.95	5.40	5.70	
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.4	....	0.5	0.33	2.16	2.61	2.91	
2.9	...	1.3	3.06	4.23	5.40	1.20	1.9	....	1.3	....	0.30	2.52	2.79	3.06	
¢1.8	0.8	0.5	2.07	2.79	3.24	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82	
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.3	....	0.5	0.33	2.07	2.52	2.82	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
¢3.1	0.8	0.5	3.24	3.96	4.41	1.00	...	2.5	....	0.5	0.33	3.15	3.60	3.90	
2.4	...	0.7	2.61	3.24	3.87	1.20	1.7	....	1.2	....	0.30	2.38	2.65	2.92	
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18	
2.4	...	1.3	2.61	3.78	4.95	1.20	2.1	....	1.4	....	0.30	2.65	2.92	3.19	
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45	
2.4	...	1.2	2.61	3.69	4.77	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29	

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Sunderland.....	40	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Sundridge.....	45	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Sutton.....	45	1.5	60	2.7	....	....	1.0	1.82	3.62	5.42
Swansea.....	37	1.5	50	2.8	1.4	....	1.0	1.89	4.23	6.03
Tara.....	41	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Tavistock.....	39	1.5	60	2.7	....	....	1.4	1.96	4.48	7.00
Tecumseh.....	41	1.5	50	3.6	1.8	1.0	1.4	2.43	5.31	7.11
Teeswater.....	42	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Terrace Bay Twp.....	32	1.5	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Thamesford.....	45	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Thamesville.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Thedford.....	45	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Thessalon.....	48	1.5	50	4.0	2.0	1.2	1.6	2.70	5.94	8.10
Thornbury.....	42	1.5	60	3.5	....	....	1.3	2.36	4.70	7.04
Thorndale.....	42	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
†Thornloe.....	42	1.5	50	4.0	2.0	1.1	1.6	2.70	5.89	7.87
Thornton.....	39	1.5	60	3.8	....	....	1.0	2.41	4.21	6.01
Thorold.....	40	1.5	50	3.2	1.6	....	1.3	2.16	4.90	7.24
Tilbury.....	45	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Tillsonburg.....	40	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
†Timmins (including Schumacher).....	42	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Toronto (including Leaside).....	**	1.5	60	2.0	....	....	1.4	1.58	4.10	6.62
Toronto Twp.....	37	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Tottenham.....	43	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Trenton.....	34	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Tweed.....	37	1.5	50	1.8	0.9	0.7	1.0	1.21	2.74	4.00
Uxbridge.....	39	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
Vankleek Hill.....	40	1.5	50	3.4	1.7	1.0	1.4	2.29	5.04	6.84
Victoria Harbour.....	43	1.5	60	3.2	....	....	1.3	2.20	4.54	6.88
Walkerton.....	38	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Wallaceburg.....	41	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wardsville.....	52	....	60	3.6	....	....	0.9	2.27	3.89	5.51
Warkworth.....	38	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Wasaga Beach.....	42	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
Waterdown.....	40	1.5	60	2.6	....	....	1.2	1.84	4.00	6.16
Waterford.....	42	1.5	50	3.2	1.6	0.9	1.3	2.16	4.72	6.34
Waterloo.....	35	1.5	60	2.6	....	....	1.1	1.80	3.78	5.76
Watford.....	45	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Waubashene.....	42	1.5	60	3.2	....	....	1.2	2.16	4.32	6.48
Webbwood.....	43	....	60	6.0	....	....	2.5	4.14	8.64	13.14

†Local system

For explanatory notes and water-heating schedules see pages 252 to 255.

# Utilities and Local Systems FOR ELECTRICAL SERVICE December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.5	...	0.5	0.33	3.15	3.60	3.90
2.4	...	0.7	2.61	3.24	3.87	1.35	2.0	...	1.3	...	0.33	2.70	3.00	3.29
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
2.3	...	1.4	2.52	3.78	5.04	1.35	2.2	...	1.4	...	0.33	2.83	3.13	3.43
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
¢1.4	0.8	0.5	1.71	2.43	2.88	1.00	...	0.9	...	0.5	0.33	1.71	2.16	2.46
¢2.9	0.8	0.5	3.06	3.78	4.23	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.7	...	0.5	0.33	2.43	2.88	3.18
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
4.0	0.8	0.5	4.05	4.77	5.22	1.00	...	3.2	...	0.5	0.33	3.78	4.23	4.53
3.1	...	1.3	3.24	4.41	5.58	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
¢3.6	0.8	0.5	3.69	4.41	4.86	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81
3.3	...	1.0	3.42	4.32	5.22	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88
2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.5	...	0.5	0.33	2.25	2.70	3.00
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
¢2.5	0.8	0.5	2.70	3.42	3.87	1.00	...	1.8	...	0.5	0.33	2.52	2.97	3.27
¢3.3	0.8	0.5	3.42	4.14	4.59	1.00	...	2.4	...	0.5	0.33	3.06	3.51	3.81
b2.1	...	0.7	2.65	3.28	3.91	1.10	2.1	...	1.4	...	0.38	2.56	2.91	3.25
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	...	0.5	0.33	2.79	3.24	3.54
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	...	0.5	0.33	2.07	2.52	2.82
¢1.6	0.8	0.5	1.89	2.61	3.06	1.00	...	0.8	...	0.5	0.33	1.62	2.07	2.37
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	...	0.5	0.33	2.61	3.06	3.36
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45
2.7	...	1.3	2.88	4.05	5.22	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.4	...	0.5	0.33	2.16	2.61	2.91
¢1.9	0.8	0.5	2.16	2.88	3.33	1.00	...	1.3	...	0.5	0.33	2.07	2.52	2.82
3.2	...	0.8	3.33	4.05	4.77	1.35	2.8	...	1.8	...	0.33	3.28	3.58	3.88
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	...	0.5	0.33	2.25	2.70	3.00
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.5	...	0.5	0.33	3.15	3.60	3.90
2.2	...	1.2	2.43	3.51	4.59	1.20	1.9	...	1.3	...	0.30	2.52	2.79	3.06
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.0	...	0.5	0.33	2.70	3.15	3.45
2.2	...	1.0	2.43	3.33	4.23	1.20	2.1	...	1.4	...	0.30	2.65	2.92	3.19
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	2.2	...	0.5	0.33	2.88	3.33	3.63
2.6	...	1.2	2.79	3.87	4.95	1.35	3.2	...	2.1	...	0.33	3.60	3.90	4.19
5.5	...	2.5	5.40	7.65	9.90	1.35	3.5	...	2.3	...	0.33	3.82	4.12	4.42

Municipal Electrical  
RATES AND TYPICAL BILLS  
in effect

*Rates are quoted on a monthly basis and  
and a minimum*

Municipality	Flat-rate water-heating per 100 watts or schedule number	RESIDENTIAL SERVICE								
		■ House heating per kwh	Number of kwh supplied in first block	Rate per kwh for				Net monthly bill for		
				First block of kwh	Next 200 kwh	Next 500 kwh	All addi- tional kwh	100 kwh	300 kwh	500 kwh
	¢ No.	¢	No.	¢	¢	¢	¢	\$	\$	\$
Weiland.....	41	1.5	50	3.2	1.6	....	0.9	2.16	4.72	6.34
Wellesley.....	42	1.5	60	3.3	....	....	1.3	2.25	4.59	6.93
Wellington.....	43	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
West Ferris Twp.....	37	1.5	50	3.6	1.8	1.1	1.5	2.43	5.35	7.33
West Lorne.....	43	1.5	50	3.0	1.5	....	0.9	2.02	4.45	6.07
Weston.....	37	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
Westport.....	38	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wheatley.....	45	1.5	60	3.3	....	....	1.2	2.21	4.37	6.53
Whitby.....	36	1.5	50	3.0	1.5	0.8	1.2	2.02	4.41	5.85
†White River.....	60	1.5	50	7.0	3.5	....	1.6	4.72	10.17	13.05
Warton.....	43	1.5	50	2.8	1.4	....	1.0	1.89	4.23	6.03
Williamsburg.....	40	....	60	2.0	....	....	0.8	1.37	2.81	4.25
Winchester.....	41	1.5	50	2.6	1.3	....	0.9	1.75	3.91	5.53
Windermere.....	45	1.5	50	3.2	1.6	1.0	1.4	2.16	4.77	6.57
Windsor.....	36	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Wingham.....	43	1.5	50	2.4	1.2	0.7	1.0	1.62	3.55	4.81
Woodbridge.....	42	1.5	50	2.8	1.4	0.8	1.1	1.89	4.14	5.58
Woodstock.....	36	1.5	50	3.0	1.5	0.9	1.2	2.02	4.45	6.07
Woodville.....	45	1.5	60	3.8	....	....	1.2	2.48	4.64	6.80
Wyoming.....	45	1.5	50	2.6	1.3	0.7	1.0	1.75	3.82	5.08
York Twp.....	37	1.5	50	2.6	1.3	0.8	1.1	1.75	3.87	5.31
Zurich.....	45	....	60	3.7	....	....	1.2	2.43	4.59	6.75

†Local system

NOTES

Service Charges

- a 33¢ per month per service when the permanently installed appliance load is under 2,000 watts and 66¢ per month when 2,000 watts or more.
- b Demand rate 8.5¢ per 100 watts, minimum 50¢.
- c Minimum demand charge 25¢.

■ House Heating

Applicable where electric energy is used to heat an entire dwelling or a portion of a dwelling in excess of 25% of the floor area.

- Energy billed within regular residential structure.



# Utilities and Local Systems FOR ELECTRICAL SERVICE

December 31, 1961

are subject to 10% prompt payment discount  
monthly charge

COMMERCIAL SERVICE						INDUSTRIAL POWER SERVICE								
Demand rate per 100 watts 5.0 cents, minimum 50 cents			Net monthly bill for use of 1 kw of demand			Demand rate per kw	Energy rate per kwh for use of each kw of demand					Net monthly bill for use of 1 kw of demand		
Energy rate per kwh for use of each kw of demand			100 hours	200 hours	300 hours		First 50 hours	First 100 hours	Next 50 hours	Next 100 hours	All addi- tional hours	100 hours	200 hours	300 hours
First 100 hours	Next 100 hours	All addi- tional hours												
¢	¢	¢	\$	\$	\$	\$	¢	¢	¢	¢	¢	\$	\$	\$
¢2.7	0.8	0.5	2.88	3.60	4.05	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.8	...	1.2	2.97	4.05	5.13	1.35	2.0	....	1.3	....	0.33	2.70	3.00	3.29
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢3.0	0.8	0.5	3.15	3.87	4.32	1.00	...	2.0	....	0.5	0.33	2.70	3.15	3.45
¢2.6	0.8	0.5	2.79	3.51	3.96	1.00	...	2.1	....	0.5	0.33	2.79	3.24	3.54
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.7	....	0.5	0.33	2.43	2.88	3.18
2.9	...	1.2	3.06	4.14	5.22	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
¢5.8	0.8	0.5	5.67	6.39	6.84	1.00	...	5.1	....	0.5	0.33	5.49	5.94	6.24
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
2.0	...	0.8	2.25	2.97	3.69	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10
¢2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
¢2.8	0.8	0.5	2.97	3.69	4.14	1.00	...	2.3	....	0.5	0.33	2.97	3.42	3.72
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
¢2.1	0.8	0.5	2.34	3.06	3.51	1.00	...	1.6	....	0.5	0.33	2.34	2.79	3.09
¢2.3	0.8	0.5	2.52	3.24	3.69	1.00	...	1.8	....	0.5	0.33	2.52	2.97	3.27
¢2.2	0.8	0.5	2.43	3.15	3.60	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
3.2	...	1.2	3.33	4.41	5.49	1.35	2.5	....	1.6	....	0.33	3.06	3.36	3.65
¢2.4	0.8	0.5	2.61	3.33	3.78	1.00	...	1.9	....	0.5	0.33	2.61	3.06	3.36
¢2.0	0.8	0.5	2.25	2.97	3.42	1.00	...	1.5	....	0.5	0.33	2.25	2.70	3.00
3.4	...	0.9	3.51	4.32	5.13	1.35	3.1	....	2.0	....	0.33	3.51	3.81	4.10

## NOTES

### Special Rates or Discounts

\*First 60 kwh of monthly consumption at 2.0¢, second 60 kwh and all kwh in excess of 1,000 at 1.0¢.

\*\*Flat-rate water-heater service—Toronto:

System-owned—First 400 watts \$2.90 per month.

Each 100 watts additional 40¢ per month, plus a monthly charge for larger tank sizes as follows:

30¢ for 1,000-watt and 1,200-watt heaters.

40¢ for 1,500-watt heaters.

50¢ for 2,000-watt and 2,500-watt heaters.

55¢ for heaters 3,000 watts and over.

Customer-owned—First 400 watts \$1.98 per month.

Each 100 watts additional 40¢ per month.

°Commercial customers with a connected load of under 5 kilowatts billed at residential rates.

§Farm customers billed at standard rural rates.

§§Farm customers billed at special rates.

Municipal Electrical  
GROSS MONTHLY ENERGY RATES

Subject to 10%

Element rating	SCHEDULE																
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
watts	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
400	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64
450	1.12	1.17	1.21	1.26	1.30	1.36	1.40	1.44	1.49	1.53	1.58	1.62	1.67	1.71	1.76	1.80	1.84
500	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05
550	1.38	1.43	1.49	1.54	1.60	1.66	1.70	1.76	1.81	1.87	1.92	1.98	2.03	2.09	2.14	2.20	2.26
600	1.50	1.56	1.62	1.68	1.74	1.80	1.86	1.92	1.98	2.04	2.10	2.16	2.22	2.28	2.34	2.40	2.46
650	1.59	1.66	1.71	1.78	1.84	1.91	1.97	2.03	2.10	2.16	2.22	2.29	2.36	2.41	2.48	2.54	2.61
700	1.68	1.74	1.81	1.88	1.94	2.01	2.08	2.14	2.21	2.28	2.34	2.41	2.48	2.54	2.61	2.68	2.74
750	1.78	1.84	1.91	1.99	2.06	2.12	2.20	2.27	2.34	2.41	2.48	2.56	2.62	2.69	2.77	2.83	2.91
800	1.86	1.93	2.00	2.08	2.16	2.22	2.30	2.38	2.44	2.52	2.60	2.67	2.74	2.82	2.90	2.97	3.04
850	1.94	2.02	2.10	2.18	2.26	2.33	2.41	2.49	2.57	2.64	2.72	2.80	2.88	2.96	3.03	3.11	3.19
900	2.04	2.12	2.20	2.29	2.37	2.44	2.53	2.61	2.69	2.78	2.86	2.93	3.02	3.10	3.18	3.27	3.34
950	2.13	2.22	2.30	2.39	2.48	2.56	2.64	2.73	2.81	2.90	2.99	3.07	3.16	3.24	3.33	3.41	3.50
1,000	2.22	2.31	2.40	2.49	2.58	2.67	2.76	2.84	2.93	3.02	3.11	3.20	3.29	3.38	3.47	3.56	3.64
1,000/3,000	2.36	2.46	2.55	2.64	2.74	2.83	2.93	3.02	3.12	3.21	3.31	3.40	3.49	3.59	3.68	3.78	3.87
1,500/4,500	3.54	3.68	3.82	3.97	4.11	4.25	4.39	4.53	4.67	4.82	4.96	5.10	5.24	5.38	5.52	5.67	5.81

NOTE: Gross monthly rates for all balanced element sizes over 1,000 watts are calculated as follows:

Rate for 1,000-watt element  $\times \frac{\text{Element rating}}{1,000}$

Utilities and Local Systems  
FOR FLAT-RATE WATER-HEATING

*prompt payment discount*

NUMBER																			
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40	
1.89	1.93	1.98	2.02	2.07	2.11	2.16	2.20	2.26	2.29	2.34	2.38	2.42	2.47	2.52	2.56	2.60	2.66	2.72	
2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95	3.00	
2.31	2.37	2.42	2.48	2.53	2.59	2.64	2.70	2.76	2.81	2.86	2.92	2.98	3.03	3.08	3.14	3.20	3.26	3.32	
2.52	2.58	2.64	2.70	2.76	2.82	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.36	3.42	3.48	3.54	3.60	
2.67	2.73	2.80	2.86	2.92	2.99	3.06	3.11	3.18	3.25	3.32	3.37	3.42	3.49	3.56	3.62	3.68	3.75	3.82	
2.81	2.88	2.94	3.01	3.08	3.14	3.21	3.28	3.34	3.42	3.48	3.55	3.62	3.69	3.76	3.82	3.88	3.95	4.02	
2.98	3.04	3.12	3.19	3.26	3.33	3.40	3.48	3.54	3.62	3.68	3.75	3.82	3.90	3.98	4.05	4.12	4.18	4.24	
3.12	3.19	3.27	3.34	3.41	3.49	3.57	3.63	3.71	3.79	3.86	3.93	4.00	4.08	4.16	4.24	4.32	4.38	4.44	
3.27	3.34	3.42	3.50	3.58	3.66	3.73	3.81	3.90	3.96	4.04	4.12	4.20	4.28	4.36	4.44	4.52	4.59	4.66	
3.42	3.51	3.59	3.67	3.76	3.83	3.91	4.00	4.08	4.16	4.24	4.32	4.40	4.49	4.58	4.66	4.74	4.81	4.88	
3.59	3.67	3.76	3.84	3.92	4.01	4.10	4.18	4.27	4.35	4.44	4.52	4.60	4.69	4.78	4.87	4.96	5.04	5.12	
3.73	3.82	3.91	4.00	4.09	4.18	4.27	4.36	4.44	4.53	4.62	4.71	4.80	4.89	4.98	5.07	5.16	5.25	5.34	
3.97	4.06	4.16	4.25	4.34	4.44	4.53	4.63	4.72	4.82	4.91	5.01	5.10	5.19	5.29	5.38	5.48	5.57	5.67	
5.95	6.09	6.23	6.37	6.52	6.66	6.80	6.94	7.08	7.22	7.37	7.51	7.65	7.79	7.93	8.07	8.22	8.36	8.50	

Forty Major Municipal  
(Arranged in descending order)

CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Total revenue including street lighting	Total consumption including street lighting	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
			Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	\$	kwh	\$	kwh	No.	kwh	¢
Toronto (including Leaside).....	38,384,770	3,250,199,229	11,830,658	940,379,960	176,770	443	1.26
Hamilton.....	17,002,076	2,100,667,422	4,297,694	374,629,912	71,760	435	1.15
◆Ottawa (including Eastview and Rockcliffe Park).....	10,832,687	1,126,244,030	4,569,588	604,238,556	79,277	635	0.76
◆Sarnia.....	6,734,141	1,019,666,335	791,016	59,377,748	14,657	338	1.33
◆North York Twp.....	10,841,730	914,285,261	5,822,678	526,711,019	80,046	555	1.11
◆Scarborough Twp.....	8,032,843	685,257,748	4,407,534	377,773,701	61,744	510	1.17
◆Etobicoke Twp. (including Thistletown).....	7,463,658	660,147,132	3,775,782	334,144,517	49,169	566	1.13
◆London.....	6,331,623	555,360,956	2,667,911	210,709,716	49,150	357	1.27
◆Windsor.....	4,494,476	379,348,329	1,452,654	130,217,000	34,555	314	1.12
St. Catharines.....	3,998,556	374,622,903	1,158,619	88,860,619	23,462	420	1.30
◆Oshawa.....	3,010,226	347,981,665	1,039,077	124,813,072	17,931	580	0.83
Kitchener.....	3,939,183	338,522,966	1,610,110	141,380,951	22,665	520	1.14
◆York Twp.....	3,553,519	337,462,539	2,132,314	216,621,823	39,229	460	0.98
◆Toronto Twp.....	3,355,500	326,427,529	1,302,395	112,783,690	15,711	598	1.15
Brantford.....	2,248,113	211,576,615	924,468	81,623,327	15,317	444	1.13
Kingston.....	2,111,063	209,726,765	874,999	95,578,469	13,661	583	0.92
Sudbury.....	2,602,347	201,246,493	1,514,705	135,269,891	20,940	538	1.12
Peterborough.....	2,095,997	199,341,233	920,886	87,629,081	13,339	547	1.05
Port Arthur.....	1,831,495	193,689,357	741,289	88,868,466	12,347	600	0.83
Fort William.....	1,747,195	195,799,146	764,672	97,349,419	12,192	665	0.79
◆Oakville-Trafalgar.....	2,056,905	194,635,346	960,103	76,723,188	11,303	566	1.25
◆East York Twp.....	1,969,971	183,126,856	1,255,592	120,512,228	22,537	446	1.04
◆Guelph.....	2,020,180	177,059,490	841,411	69,739,570	11,317	514	1.21
◆Burlington.....	2,133,385	154,079,458	1,358,779	99,550,774	13,203	628	1.36
◆New Toronto.....	1,245,685	146,034,635	221,869	20,511,517	3,679	465	1.08
Galt.....	1,325,181	114,654,816	534,009	45,854,742	8,079	473	1.16
◆Belleville.....	1,068,049	114,048,240	528,352	60,160,166	9,092	562	0.88
◆Welland.....	1,132,171	99,676,958	307,154	21,675,682	9,969	300	1.42
Chatham.....	1,527,603	95,323,215	442,539	25,107,849	8,210	255	1.76
◆Woodstock.....	992,628	92,152,321	433,243	38,984,284	6,500	500	1.11
Barrie.....	915,705	89,251,565	421,545	42,139,512	6,223	564	1.00
◆Trenton.....	731,721	87,252,146	230,906	24,179,338	3,929	513	0.95
◆Niagara Falls.....	1,028,324	86,540,313	379,080	30,271,299	6,839	369	1.25
Waterloo.....	967,051	85,539,394	422,876	41,623,351	6,030	575	1.02
◆St. Thomas.....	989,711	80,852,309	485,922	37,621,854	7,417	423	1.29
Stamford Twp.....	1,093,568	80,120,377	589,814	45,689,665	8,423	452	1.29
Stratford.....	946,606	78,517,624	431,214	37,507,517	6,132	510	1.15
North Bay.....	952,392	77,144,219	469,730	40,730,856	6,426	528	1.15
Brockville.....	755,351	76,810,925	314,853	31,089,410	5,253	493	1.01
◆Port Credit.....	608,698	75,511,666	158,716	15,021,429	2,650	472	1.06

For explanation of symbols see page 276.



Electrical Utilities  
of total consumption)

AND CONSUMPTION

December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
9,354,387	639,703,200	26,472	2,014	1.46	16,221,634	1,620,656,199	7,079	429,811	19,078	1.00
2,524,990	205,591,072	8,705	1,968	1.23	9,789,585	1,502,078,370	1,359	287,344	92,107	0.65
5,433,430	463,919,983	11,142	3,470	1.17	476,363	44,520,891	185	15,781	20,054	1.07
410,423	27,998,628	837	2,788	1.47	5,459,092	929,671,559	175	117,916	442,701	0.59
2,998,533	202,834,976	4,624	3,000	1.48	1,776,769	171,135,266	707	57,583	14,800	1.04
1,724,846	133,269,681	2,827	3,928	1.29	1,610,826	161,766,366	333	46,597	40,482	1.00
1,314,587	94,014,083	2,135	3,670	1.40	2,097,294	220,668,070	749	59,374	24,551	0.95
1,477,347	112,551,013	2,531	3,706	1.31	2,016,601	225,200,587	522	58,879	35,952	0.90
877,032	67,298,057	1,979	2,834	1.30	1,860,293	171,565,072	771	61,732	18,544	1.08
676,239	40,267,388	2,363	1,700	1.68	2,058,230	240,688,096	315	57,903	70,000	0.86
440,810	37,384,655	1,643	1,896	1.18	1,417,008	180,514,938	276	45,076	54,503	0.78
759,065	48,707,942	1,792	2,265	1.56	1,445,286	142,997,025	367	40,516	32,470	1.01
564,404	44,359,107	1,294	2,857	1.27	703,866	70,818,409	543	23,576	10,868	0.99
419,444	29,209,982	585	4,161	1.44	1,529,753	181,301,843	195	35,972	77,479	0.84
408,032	33,561,359	1,572	1,779	1.22	847,302	93,241,249	295	30,010	26,339	0.91
742,130	64,066,882	2,110	2,530	1.16	428,949	47,673,106	234	14,574	16,978	0.90
755,580	45,156,193	2,080	1,809	1.67	225,448	17,290,881	270	7,117	5,337	1.30
460,283	29,602,029	1,445	1,707	1.55	630,187	78,558,923	259	21,287	25,276	0.80
463,010	43,529,828	1,655	2,192	1.06	560,050	63,111,463	59	23,849	89,140	0.89
389,753	38,644,251	1,567	2,055	1.01	490,213	56,083,076	214	20,695	21,839	0.87
293,127	20,853,486	490	3,547	1.41	767,925	95,900,360	195	17,577	40,983	0.80
367,590	30,546,227	901	2,825	1.20	265,768	28,601,468	91	8,705	26,192	0.93
353,165	24,260,315	1,019	1,984	1.46	735,465	80,333,045	139	20,963	48,161	0.92
339,135	20,500,185	624	2,738	1.65	413,707	33,277,099	145	11,380	19,125	1.24
143,111	11,446,136	245	3,893	1.25	861,924	113,407,782	36	24,640	262,518	0.76
209,524	12,317,721	856	1,199	1.70	525,849	54,397,793	223	17,387	20,328	0.97
269,521	22,336,922	698	2,135	1.21	236,788	29,869,164	157	8,666	15,854	0.79
198,360	12,692,835	481	1,900	1.56	583,223	63,342,181	185	16,490	30,000	0.92
451,349	21,825,880	1,204	1,511	2.07	556,023	45,429,486	259	15,289	14,617	1.22
143,745	10,495,487	356	2,457	1.37	377,285	40,589,850	139	11,635	24,334	0.93
253,765	18,170,413	870	1,740	1.40	227,371	28,018,240	111	8,816	21,035	0.81
90,773	7,188,497	242	2,475	1.26	388,585	55,070,311	78	10,993	58,836	0.71
361,010	29,510,416	546	4,504	1.22	239,526	24,707,878	50	7,338	41,180	0.95
214,943	13,870,167	531	2,177	1.55	282,114	28,145,662	79	7,882	29,690	1.00
177,055	12,628,822	403	2,611	1.40	303,232	29,787,217	116	8,869	21,399	1.02
224,677	10,996,681	612	1,497	2.04	234,123	21,581,619	106	7,432	16,967	1.08
202,676	13,839,028	683	1,689	1.46	265,573	25,159,519	152	8,973	13,794	1.06
315,484	22,850,734	1,129	1,687	1.38	139,830	12,314,229	130	4,177	7,894	1.14
153,639	12,051,498	734	1,368	1.27	263,829	32,875,737	49	8,933	55,911	0.80
74,846	5,526,392	157	2,933	1.35	361,206	54,474,245	11	8,204	412,684	0.66

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Acton.....	4,205	1,312	4,278	87,651	7,479,475	1,209	516	1.17
◆ Ailsa Craig.....	549	224	392	10,216	819,280	203	336	1.25
◆ Ajax.....	7,849	2,188	6,169	139,895	10,890,078	2,015	450	1.28
◆ Alexandria.....	2,486	895	2,173	43,837	4,346,124	810	447	1.01
◆ Alfred.....	965	305	561	16,017	1,196,147	278	359	1.34
Alliston.....	2,948	1,096	2,305	56,900	5,301,851	903	489	1.07
◆ Almonte.....	3,316	1,096	1,918	55,268	5,930,416	1,017	486	0.93
Alvinston.....	626	330	282	7,688	436,476	258	141	1.76
◆ Amherstburg.....	4,414	1,440	3,398	90,818	8,080,419	1,290	522	1.12
Ancaster Twp. (including Ancaster).....	13,397	1,108	2,698	106,276	8,191,066	1,025	666	1.30
Apple Hill.....	400	114	101	4,206	256,310	96	222	1.64
◆ Arkona.....	497	188	363	13,537	984,140	176	466	1.38
◆ Arnprior.....	5,505	1,779	4,244	101,356	10,005,380	1,634	510	1.01
◆ Arthur.....	1,256	505	815	25,792	2,173,470	451	402	1.19
◆ Athens.....	960	367	493	14,442	1,524,657	350	363	0.95
◆ Atikokan Twp.....	6,918	1,803	3,794	165,890	13,483,136	1,655	654	1.23
◆ Aurora.....	8,055	2,724	6,240	158,479	13,556,406	2,468	458	1.17
◆ Avonmore.....	248	116	200	7,794	466,210	104	374	1.67
◆ Aylmer.....	4,650	1,536	4,939	76,484	8,199,455	1,393	491	0.93
Ayr.....	1,024	379	686	19,572	1,731,447	310	465	1.13
◆ Baden.....	888	279	890	17,804	1,566,577	264	495	1.14
◆† Bala.....	*457	824	363	31,700	1,270,500	740	143	2.50
Bancroft.....	2,535	775	1,443	51,266	3,537,777	640	461	1.45
Barrie.....	21,610	7,204	19,342	421,545	42,139,512	6,223	564	1.00
◆ Barry's Bay.....	1,432	412	440	13,109	980,330	383	213	1.34
Bath.....	699	251	397	15,791	1,127,574	224	419	1.40
◆ Beachburg.....	536	215	329	14,030	819,975	200	342	1.71
◆ Beachville.....	836	237	2,195	17,320	1,520,363	275	461	1.14
Beamsville.....	2,481	889	1,689	49,146	4,314,385	766	469	1.14
◆† Beardmore.....	1,137	325	503	20,234	1,276,700	249	427	1.58
◆ Beaverton.....	1,211	569	1,234	25,243	2,314,744	519	372	1.09
◆ Beeton.....	830	316	553	17,823	1,292,480	297	363	1.38
◆ Belle River.....	1,894	694	751	30,204	1,625,074	638	212	1.86
◆ Belleville.....	29,162	9,947	24,913	528,352	60,160,166	9,092	562	0.88
◆ Blenheim.....	3,134	1,179	1,748	42,830	2,819,346	1,050	224	1.52
◆† Blind River.....	3,940	1,186	2,094	86,011	5,495,300	1,009	454	1.57
◆ Bloomfield.....	661	313	454	13,699	1,280,381	294	363	1.07
◆ Blyth.....	737	332	772	16,231	1,354,296	296	381	1.20
Bobcaygeon.....	1,273	746	859	31,636	2,015,639	615	273	1.57
◆ Bolton.....	2,074	657	1,421	55,211	4,007,731	618	540	1.38

For explanation of symbols see page 276.

**Utilities and Local Systems**  
**AND CONSUMPTION**  
**December 31, 1961**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer per kwh	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer per kwh	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
24,606	1,459,176	70	1,737	1.69	106,864	8,675,730	33	2,932	21,908	1.23
3,657	217,197	17	1,065	1.68	4,538	235,910	4	146	4,915	1.92
36,089	2,364,665	106	1,859	1.53	178,710	15,704,820	67	5,058	19,533	1.14
20,054	1,401,574	67	1,743	1.43	31,258	3,006,545	18	833	13,919	1.04
4,555	239,285	17	1,173	1.90	8,794	608,110	10	287	5,068	1.45
30,254	1,746,897	159	916	1.73	29,331	2,783,662	34	886	6,823	1.05
14,556	1,126,288	55	1,706	1.29	33,934	3,902,419	24	1,189	13,550	0.87
6,272	292,796	64	381	2.14	2,081	86,983	8	65	906	2.39
37,648	2,374,512	116	1,706	1.59	62,058	5,630,540	34	1,681	13,800	1.10
19,636	819,864	74	923	2.40	6,091	462,289	9	148	4,280	1.32
1,257	59,660	18	276	2.11	.....	.....	.....	.....	.....	.....
2,484	150,261	10	1,252	1.65	3,187	146,550	2	84	6,106	2.17
42,814	3,289,627	124	2,211	1.30	52,244	4,751,256	21	1,649	18,854	1.10
7,903	427,436	39	913	1.85	5,641	341,025	15	216	1,895	1.65
2,617	188,280	15	1,046	1.39	881	55,200	2	46	2,300	1.60
57,378	3,654,426	116	2,625	1.57	18,147	932,802	32	845	2,429	1.95
68,813	4,638,973	211	1,832	1.48	108,960	8,834,630	45	2,867	16,360	1.23
2,066	108,025	11	818	1.91	958	26,100	1	45	2,175	3.67
43,010	3,399,845	111	2,552	1.27	70,343	6,854,016	32	2,341	17,849	1.03
10,317	623,554	55	945	1.65	10,784	480,799	14	381	2,862	2.24
2,600	164,001	10	1,367	1.59	18,946	1,448,230	5	602	24,137	1.31
14,155	658,000	78	703	2.15	942	56,800	6	41	789	1.66
30,116	1,430,887	121	985	2.10	14,120	1,058,364	14	439	6,300	1.33
253,765	18,170,413	870	1,740	1.40	227,371	28,018,240	111	8,816	21,035	0.81
5,234	384,945	25	1,283	1.36	927	72,870	4	31	1,518	1.27
3,607	171,180	26	549	2.11	666	64,680	1	11	5,390	1.03
1,949	97,423	10	812	2.00	8,071	495,770	5	203	8,263	1.63
2,015	110,552	10	921	1.82	86,584	11,563,210	2	1,936	481,800	0.75
21,020	1,205,690	110	913	1.74	10,694	655,780	13	349	4,204	1.63
14,736	804,500	74	906	1.83	147	1,600	2	10	67	9.19
10,811	825,140	37	1,858	1.31	24,445	1,928,233	13	916	12,360	1.27
2,955	130,845	12	909	2.26	5,034	307,000	7	122	3,655	1.64
15,690	856,114	51	1,399	1.83	3,609	239,308	5	99	3,988	1.51
269,521	22,336,922	698	2,135	1.21	236,788	29,869,164	157	8,666	15,854	0.79
33,658	1,898,299	103	1,536	1.77	25,749	1,407,845	26	808	4,512	1.83
53,289	3,059,100	172	1,482	1.74	15,036	1,086,500	5	368	18,108	1.38
3,054	192,594	13	1,235	1.59	1,793	41,857	6	128	581	4.28
5,874	365,798	29	1,051	1.61	13,381	1,080,285	7	337	12,861	1.24
15,837	723,665	122	494	2.19	8,025	376,610	9	272	3,487	2.13
9,860	522,511	27	1,613	1.89	5,625	348,975	12	190	2,423	1.61

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No	kw	\$	kwh	No.	kwh	¢
◆ Bothwell .....	825	330	467	11,184	853,501	287	262	1.31
◆ Bowmanville .....	7,242	2,471	6,544	132,679	14,012,898	2,285	511	0.95
◆ Bracebridge .....	2,970	1,155	238	65,142	5,239,600	928	471	1.24
◆ Bradford .....	2,358	833	2,044	49,547	4,435,716	720	513	1.12
◆ Braeside .....	530	162	1,634	7,390	574,229	154	311	1.29
◆ Brampton .....	19,185	6,135	17,471	438,954	34,686,625	5,718	506	1.27
◆ Brantford .....	54,425	17,184	45,208	924,468	81,623,327	15,317	444	1.13
◆ Brantford Twp. ....	7,824	2,298	5,854	258,144	16,481,272	2,137	643	1.57
◆ Brechin .....	272	100	176	3,710	347,135	85	340	1.07
◆ Bridgeport .....	1,695	461	930	33,596	2,812,039	431	544	1.19
◆ Brigden .....	513	212	248	5,944	425,130	181	196	1.40
◆ Brighton .....	2,427	1,001	1,604	49,669	4,685,532	920	424	1.06
◆ Brockville .....	17,690	6,036	16,453	314,853	31,089,410	5,253	493	1.01
◆ Brussels .....	853	377	688	20,697	1,703,303	337	462	1.22
◆ Burford .....	1,080	411	864	30,266	2,330,353	367	529	1.30
◆ Burgessville .....	260	100	225	5,800	476,024	77	515	1.22
◆ Burk's Falls .....	914	350	724	19,241	1,372,820	318	360	1.40
◆ Burlington .....	46,374	13,972	36,335	1,358,779	99,550,774	13,203	628	1.36
◆ Cache Bay .....	896	201	319	8,895	476,349	195	204	1.87
◆ Caledonia .....	2,265	820	1,204	30,028	2,264,222	679	278	1.33
◆ Campbellford .....	3,428	1,357	953	67,507	7,161,131	1,198	498	0.94
◆ Campbellville .....	216	93	171	7,045	517,954	85	508	1.36
◆ Cannington .....	1,024	450	764	22,403	1,891,505	373	423	1.18
◆ Capreol .....	2,937	995	2,110	83,930	5,885,608	897	547	1.43
◆ Cardinal .....	1,991	666	1,042	35,376	3,253,753	627	432	1.09
◆ Carleton Place .....	4,699	1,737	3,378	101,932	8,141,636	1,621	419	1.25
◆ Casselman .....	1,331	384	745	22,699	1,617,751	358	377	1.40
◆ Cayuga .....	910	374	520	13,576	1,013,421	322	262	1.34
◆ Chalk River .....	1,062	291	553	16,939	1,551,667	275	470	1.09
◆ Chappleau Twp. ....	3,742	991	408	92,559	1,787,715	859	173	5.18
◆ Chatham .....	29,332	9,673	21,188	442,539	25,107,849	8,210	255	1.76
◆ Chatsworth .....	407	169	334	8,358	700,530	147	397	1.19
◆ Chesley .....	1,650	732	1,260	33,191	2,963,765	600	412	1.12
◆ Chesterville .....	1,252	457	1,585	22,538	2,063,148	413	416	1.09
◆ Chippawa .....	3,182	1,049	1,595	58,024	4,126,313	952	361	1.41
◆ Clifford .....	559	225	378	13,122	1,075,010	205	437	1.22
◆ Clinton .....	3,227	1,246	2,483	76,905	6,308,764	1,111	473	1.22
◆ †Cobalt .....	2,070	763	1,099	45,803	2,885,500	638	377	1.59
◆ Cobden .....	878	395	733	16,413	1,913,896	364	438	0.86
◆ Cobourg .....	9,556	3,515	10,008	195,359	19,256,801	3,187	504	1.01

For explanation of symbols see page 276.



Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
7,896	579,698	32	1,006	1.36	4,451	121,520	11	199	921	3.66
50,523	4,393,547	147	2,491	1.15	79,085	9,216,168	39	2,771	19,693	0.86
47,863	3,358,036	205	1,365	1.43	10,656	659,592	22	412	2,498	1.62
25,569	1,558,223	82	1,584	1.64	25,822	2,292,455	31	785	6,163	1.13
658	41,680	6	579	1.58	54,266	5,753,030	2	1,516	239,710	0.94
176,702	11,862,546	320	3,089	1.49	246,171	21,822,956	97	6,667	18,748	1.13
408,032	33,561,359	1,572	1,779	1.22	847,302	93,241,249	295	30,010	26,339	0.91
46,597	2,636,719	114	1,927	1.77	102,080	6,901,516	47	3,032	12,237	1.48
2,362	182,350	14	1,085	1.30	498	18,816	1	26	1,568	2.65
7,925	545,841	21	2,166	1.45	5,342	352,535	9	193	3,264	1.52
4,938	299,140	23	1,084	1.65	3,541	135,575	8	154	1,412	2.61
17,782	1,188,699	70	1,415	1.50	7,302	548,651	11	277	4,156	1.33
153,639	12,051,498	734	1,368	1.27	263,829	32,875,737	49	8,933	55,911	0.80
9,016	503,085	31	687	1.79	7,253	362,032	9	189	3,352	2.00
10,259	555,858	37	1,252	1.85	4,874	271,395	7	157	3,231	1.80
2,742	136,327	20	568	2.01	2,738	55,210	3	96	1,534	4.96
8,858	506,890	28	1,509	1.75	9,750	667,340	4	237	13,903	1.46
339,135	20,500,185	624	2,738	1.65	413,707	33,277,099	145	11,380	19,125	1.24
562	19,170	3	533	2.93	18,726	825,256	3	427	22,924	2.27
21,743	1,393,188	116	1,001	1.56	11,468	778,503	25	329	2,595	1.47
29,243	2,514,039	135	1,552	1.16	17,295	1,834,759	24	643	6,371	0.94
1,104	71,260	7	848	1.55	608	59,300	1	10	4,942	1.03
8,453	420,021	66	530	2.01	5,572	294,660	11	166	2,232	1.89
18,297	1,128,447	95	990	1.62	12,751	1,197,170	3	279	33,255	1.07
7,766	517,190	34	1,268	1.50	1,478	119,640	5	47	1,994	1.23
27,850	1,500,118	88	1,421	1.86	44,162	4,211,526	28	1,283	12,534	1.05
6,907	359,115	20	1,496	1.92	11,632	727,615	6	333	10,106	1.60
9,978	624,413	41	1,269	1.60	4,505	132,845	11	212	1,006	3.39
4,268	334,758	14	1,993	1.27	2,801	253,150	2	94	10,548	1.11
44,337	746,434	112	555	5.95	15,679	458,422	20	186	1,910	3.42
451,349	21,825,880	1,204	1,511	2.07	556,023	45,429,486	259	15,289	14,617	1.22
4,236	255,440	21	1,014	1.66	773	33,075	1	23	2,756	2.34
15,845	872,306	106	686	1.82	11,478	723,042	26	426	2,317	1.59
7,430	497,220	34	1,219	1.49	38,312	3,875,640	10	1,047	32,297	0.99
18,989	984,648	85	965	1.93	5,118	542,502	12	159	3,767	0.94
3,213	207,592	14	1,236	1.55	4,120	313,250	6	105	4,351	1.32
32,054	2,003,145	108	1,546	1.60	24,603	1,788,256	27	699	5,519	1.38
20,025	1,058,300	119	741	1.89	9,746	811,400	6	213	11,269	1.20
6,615	498,039	25	1,660	1.33	3,432	179,340	6	194	2,491	1.91
69,985	5,360,645	255	1,752	1.31	170,081	19,984,525	73	5,732	22,813	0.85

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Cochrane.....	4,459	1,320	2,842	92,633	7,105,490	1,107	535	1.30
Colborne.....	1,357	578	1,144	30,717	2,574,539	476	451	1.19
◆ Coldwater.....	750	274	631	14,640	1,366,260	253	450	1.07
◆ Collingwood.....	8,134	3,114	6,664	141,681	13,878,739	2,868	403	1.02
◆ Comber.....	583	234	332	8,205	515,390	201	214	1.59
◆ Coniston.....	2,680	673	1,278	54,094	4,152,186	655	528	1.30
◆ Cookstown.....	643	250	389	12,473	1,079,895	229	393	1.16
◆ Cottam.....	659	246	290	9,553	711,994	221	268	1.34
◆ Courtright.....	549	195	196	6,596	455,174	179	212	1.45
Creemore.....	877	364	610	17,494	1,544,620	303	425	1.13
◆ Dashwood.....	416	184	308	11,637	743,671	174	356	1.56
◆ Deep River.....	5,365	1,447	4,196	133,765	11,511,498	1,311	732	1.16
Delaware.....	409	135	250	10,918	762,755	118	539	1.43
◆ Delhi.....	3,447	1,411	3,004	61,242	5,376,570	1,231	364	1.14
◆ Deseronto.....	1,785	625	1,039	30,464	2,780,739	583	397	1.10
◆ Dorchester.....	914	333	562	16,165	1,281,691	315	339	1.26
◆ Drayton.....	633	275	458	15,178	1,012,555	249	339	1.50
◆ Dresden.....	2,245	903	1,290	33,231	2,149,799	811	221	1.55
◆ Drumbo.....	400	171	275	9,689	811,701	159	425	1.19
◆ Dryden.....	6,147	1,790	3,454	135,153	10,742,771	1,659	540	1.26
◆ Dublin.....	275	116	290	6,029	528,572	102	432	1.14
◆ Dundalk.....	902	437	715	19,320	1,554,900	385	337	1.24
Dundas.....	13,253	4,208	9,867	239,708	20,708,148	3,718	464	1.16
◆ Dunnville.....	5,343	1,959	3,875	66,172	4,496,707	1,728	218	1.47
Durham.....	2,101	849	1,593	41,531	3,442,073	702	409	1.21
◆ Dutton.....	803	347	474	12,403	885,851	318	232	1.40
◆ East York Twp.....	69,627	23,529	42,905	1,255,592	120,512,228	22,537	446	1.04
Eganville.....	1,451	566	638	28,334	1,855,922	465	333	1.53
◆ †Elk Lake Townsite.....	\$650	225	450	11,420	729,600	162	375	1.57
◆ Elmira.....	3,284	1,177	3,990	77,132	6,636,725	1,070	517	1.16
◆ Elmvale.....	938	404	699	20,819	1,856,115	365	424	1.12
◆ Elmwood.....	\$450	135	210	4,859	393,030	125	262	1.24
Elora.....	1,493	541	884	35,020	2,339,431	463	421	1.50
Embro.....	542	234	461	13,568	1,115,308	188	494	1.22
◆ †Englehart.....	1,685	623	1,103	39,628	2,430,800	517	392	1.63
◆ Erieau.....	487	359	366	12,968	992,204	324	255	1.31
◆ Erie Beach.....	*154	135	63	4,591	168,480	129	109	2.72
◆ Erin.....	1,021	412	675	22,848	1,832,585	372	411	1.25
◆ Espanola.....	5,222	1,341	2,639	121,171	8,056,899	1,253	536	1.50
◆ Essex.....	3,412	1,220	1,831	49,554	3,494,850	1,081	269	1.42

For explanation of symbols see page 276.

Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
59,870	3,187,119	189	1,405	1.88	20,185	1,674,682	24	551	5,815	1.21
15,792	753,881	93	676	2.09	5,879	393,067	9	158	3,640	1.50
3,704	237,601	16	1,238	1.56	8,455	708,848	5	289	11,814	1.19
64,125	4,744,420	180	2,196	1.35	91,786	8,744,324	66	3,324	11,041	1.05
5,210	266,945	25	890	1.95	7,001	277,230	8	239	2,888	2.53
6,045	316,310	15	1,757	1.91	1,372	91,160	3	38	2,532	1.50
2,492	127,210	16	663	1.96	2,409	114,770	5	90	1,913	2.10
3,282	169,580	18	785	1.94	3,868	85,900	7	203	1,023	4.50
2,217	143,869	14	856	1.54	698	62,204	2	18	2,592	1.12
7,089	375,230	55	569	1.89	2,644	140,850	6	111	1,956	1.88
1,335	65,150	6	905	2.05	3,593	130,950	4	125	2,728	2.74
58,092	3,892,245	127	2,554	1.49	10,139	941,620	9	238	8,719	1.08
3,275	132,044	17	647	2.48						
46,001	2,884,954	139	1,730	1.59	36,558	2,474,242	41	1,289	5,029	1.48
6,436	439,062	24	1,525	1.47	16,093	1,115,214	18	632	5,163	1.44
2,365	117,134	14	697	2.02	4,537	250,426	4	158	5,217	1.81
3,413	170,235	22	645	2.01	3,612	140,853	4	114	2,934	2.56
19,688	1,150,060	62	1,546	1.71	44,427	2,869,370	30	1,298	7,970	1.55
1,230	62,450	9	578	1.97	1,656	45,830	3	73	1,273	3.61
65,508	4,176,876	126	2,762	1.57	4,083	261,500	5	115	4,358	1.56
3,356	242,397	12	1,683	1.38	4,618	176,500	2	121	7,354	2.62
8,841	452,053	39	966	1.96	6,140	310,718	13	245	1,992	1.98
143,473	8,979,855	406	1,843	1.60	98,590	8,198,217	84	3,545	8,133	1.20
49,907	3,254,216	191	1,363	1.53	88,257	7,754,192	40	2,450	16,155	1.14
20,036	1,065,080	123	722	1.88	30,945	1,631,531	24	980	5,665	1.90
3,916	232,387	16	1,210	1.69	7,049	483,297	13	249	3,098	1.46
367,590	30,546,227	901	2,825	1.20	265,768	28,601,468	91	8,705	26,192	0.93
22,705	988,865	91	906	2.30	8,410	566,471	10	223	4,721	1.48
7,106	438,500	61	599	1.62	7,749	222,400	2	263	9,267	3.48
30,023	1,842,746	74	2,075	1.63	88,643	8,096,298	33	2,294	20,445	1.09
7,630	487,318	31	1,310	1.57	2,094	159,429	8	74	1,661	1.31
1,217	80,220	9	743	1.52	2,881	97,200	1	121	8,100	2.96
11,772	526,933	72	610	2.23	7,345	470,140	6	209	6,530	1.56
4,032	271,635	42	539	1.48	4,431	184,417	4	109	3,842	2.40
19,597	957,900	102	783	2.05	6,865	627,300	4	162	13,069	1.09
7,141	493,900	29	1,419	1.45	6,881	263,755	6	235	3,663	2.61
426	13,403	6	186	3.18						
7,065	432,120	33	1,091	1.63	3,653	185,980	7	153	2,214	1.96
40,127	2,449,230	86	2,373	1.64	406	10,100	2	22	421	4.02
39,166	2,451,539	107	1,909	1.60	20,186	1,032,090	32	777	2,688	1.96

# Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Etobicoke Twp. (including Thistletown).....	152,204	52,053	136,970	3,775,782	334,144,517	49,169	566	1.13
Exeter.....	3,012	1,258	2,424	77,260	5,887,116	1,041	471	1.31
Fergus.....	3,928	1,373	3,791	95,617	7,170,130	1,193	501	1.33
◆ Finch.....	382	178	278	8,927	735,028	166	369	1.21
◆ Flesherton.....	523	255	489	9,228	996,008	228	364	0.93
Fonthill.....	2,404	801	1,425	51,836	4,145,871	716	483	1.25
◆ Forest.....	2,134	917	1,595	45,309	4,572,880	842	453	0.99
◆ Forest Hill.....	20,266	7,922	15,288	563,677	55,693,040	7,486	620	1.02
Fort William.....	44,871	13,973	37,395	764,672	97,349,419	12,192	665	0.79
◆ Frankford.....	1,602	599	927	30,841	2,813,241	561	418	1.10
Galt.....	27,367	9,158	25,058	534,009	45,854,742	8,079	473	1.16
◆ Georgetown.....	10,311	3,322	8,787	215,463	18,089,482	3,095	487	1.19
◆ † Geraldton.....	3,590	1,097	1,539	71,588	4,245,600	903	392	1.69
◆ Glencoe.....	1,139	486	643	14,381	1,184,255	421	234	1.21
◆ Goderich.....	6,360	2,399	6,377	139,005	11,682,322	2,186	445	1.19
◆ † Gogama.....	\$500	140	260	11,990	429,600	120	298	2.79
Grand Bend.....	*874	834	632	38,454	1,888,670	706	223	2.04
Grand Valley.....	697	324	569	15,003	1,103,290	255	361	1.36
Granton.....	291	122	133	6,462	392,233	97	337	1.65
◆ Gravenhurst.....	3,177	1,351	2,468	56,606	6,220,934	1,212	428	0.91
Grimsby.....	5,155	1,871	3,454	78,764	6,822,826	1,581	360	1.15
◆ Guelph.....	39,011	12,475	34,990	841,411	69,739,570	11,317	514	1.21
Hagersville.....	2,066	773	1,781	28,593	2,208,369	600	307	1.29
◆ † Haileybury.....	2,631	903	1,680	67,502	4,730,000	732	538	1.43
Hamilton.....	264,130	81,824	368,668	4,297,694	374,629,912	71,760	435	1.15
Hanover.....	4,378	1,624	4,232	83,898	8,009,299	1,399	477	1.05
◆ Harriston.....	1,632	676	1,358	36,205	2,935,853	612	400	1.23
◆ Harrow.....	1,729	689	1,366	43,183	3,737,815	591	527	1.16
◆ Hastings.....	894	448	518	16,607	1,499,042	426	293	1.11
◆ Havelock.....	1,277	468	660	22,845	1,744,436	435	334	1.31
◆ Hawkesbury.....	8,583	2,176	3,838	136,310	10,233,367	2,044	417	1.33
◆ Hearst.....	2,366	713	1,489	54,634	2,912,530	631	385	1.88
Hensall.....	927	365	791	18,883	1,635,255	288	473	1.15
◆ † Hepworth.....	343	127	180	6,795	403,700	112	300	1.68
Hespeler.....	4,546	1,469	5,630	73,466	5,730,278	1,308	365	1.28
Highgate.....	385	164	218	4,367	317,378	125	212	1.38
Holstein.....	179	96	135	3,670	298,920	77	324	1.23
† Hornepayne.....	\$1,400	483	761	48,792	1,949,845	426	381	2.50
◆ † Hudson Townsite.....	\$600	211	667	9,875	463,000	177	218	2.13
Huntsville.....	3,120	1,216	2,577	66,614	5,919,964	979	504	1.13

For explanation of symbols see page 276.



**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Ave- rage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Ave- rage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
1,314,587	94,014,083	2,135	3,670	1.40	2,097,294	220,668,070	749	59,374	24,551	0.95
31,803	1,798,390	183	819	1.77	28,534	1,612,577	34	945	3,952	1.77
33,681	1,704,080	150	947	1.98	71,333	5,360,075	30	2,048	14,889	1.33
1,744	89,970	7	1,071	1.94	2,932	116,075	5	126	1,935	2.53
4,560	327,332	25	1,091	1.39	1,553	110,540	2	65	4,606	1.40
14,344	795,357	74	896	1.80	4,372	200,440	11	134	1,518	2.18
16,649	1,171,164	51	1,914	1.42	11,273	1,002,221	24	404	3,480	1.12
171,837	14,158,900	409	2,885	1.21	10,674	1,202,720	27	344	3,712	0.89
389,753	38,644,251	1,567	2,055	1.01	490,213	56,083,076	214	20,695	21,839	0.87
4,754	312,523	32	814	1.52	2,280	203,005	6	92	2,820	1.12
209,524	12,317,721	856	1,199	1.70	525,849	54,397,793	223	17,387	20,328	0.97
62,902	4,057,366	183	1,848	1.55	147,950	17,261,414	44	3,923	32,692	0.86
39,747	2,282,400	178	1,069	1.74	2,418	89,500	16	72	466	2.70
13,810	927,775	51	1,516	1.49	7,993	284,005	14	356	1,691	2.81
45,110	2,739,774	148	1,543	1.65	156,552	13,541,063	65	4,408	17,360	1.16
4,313	131,900	19	579	3.27	5,738	295,100	1	77	24,592	1.94
29,731	1,292,715	128	842	2.30	4,890	229,720	9	210	2,127	2.13
7,195	347,710	60	483	2.07	147	480	1	8	40	.....
1,490	57,056	24	198	2.61	24,949	2,418,814	30	973	6,719	1.03
28,706	2,491,650	109	1,905	1.15	30,063	2,648,185	39	967	5,659	1.14
49,899	3,220,128	251	1,069	1.55	735,465	80,333,045	139	20,963	48,161	0.92
353,165	24,260,315	1,019	1,984	1.46	37,133	2,116,130	26	1,423	6,782	1.75
27,904	1,652,370	147	937	1.69	4,921	389,300	9	167	3,605	1.26
39,175	2,020,700	162	1,039	1.94	9,789,585	1,502,078,370	1,359	287,344	92,107	0.65
2,524,990	205,591,072	8,705	1,968	1.23	61,126	5,682,818	39	2,257	12,143	1.08
31,964	2,106,576	186	944	1.52	23,021	2,010,678	15	632	11,170	1.14
12,175	694,587	49	1,181	1.75	17,356	820,140	13	596	5,257	2.12
23,114	1,371,725	85	1,345	1.69	2,551	141,442	4	109	2,947	1.80
2,861	215,260	18	997	1.33	2,088	152,415	3	66	4,234	1.37
7,947	510,323	30	1,418	1.56	12,964	915,287	26	489	2,934	1.42
65,994	3,699,826	106	2,909	1.78	10,107	491,287	12	265	3,412	2.06
28,402	1,379,410	70	1,642	2.06	15,332	834,090	21	502	3,310	1.84
10,290	556,252	56	828	1.85	157,963	18,407,810	35	4,747	43,828	0.86
2,956	152,500	15	847	1.94	4,661	166,830	4	137	3,476	2.79
25,279	1,434,939	126	949	1.76	977	67,100	2	20	2,796	1.46
3,330	165,510	35	394	2.01	8,576	748,800	1	112	62,400	1.15
1,000	51,350	17	252	1.95	19,205	810,500	3	416	22,514	2.37
24,628	689,273	56	1,026	3.57	14,853	1,163,520	34	552	2,852	1.28
5,408	271,500	31	730	1.99						
57,742	3,685,331	203	1,513	1.57						

# Municipal Electrical CUSTOMERS, REVENUE, for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
Ingersoll.....	7,283	2,336	5,314	119,116	8,093,986	2,035	331	1.47
◆Iroquois.....	1,091	393	924	27,494	2,253,628	338	561	1.22
◆Jarvis.....	762	279	419	12,513	809,875	255	265	1.55
◆†Jellicoe Townsite.....	\$180	62	72	2,883	152,192	49	259	1.89
◆Kapuskasing.....	6,794	2,189	4,070	123,779	10,522,537	1,969	445	1.18
◆†Kearns Townsite.....	500	194	342	14,593	961,800	181	443	1.52
◆Kemptville.....	1,938	768	1,807	42,946	3,850,859	709	453	1.12
◆Killaloe Station.....	897	293	350	16,693	865,000	271	266	1.93
◆Kincardine.....	2,851	1,247	2,268	56,219	5,474,851	1,124	406	1.03
◆†King Kirkland Townsite...	\$500	192	283	12,946	825,184	170	405	1.57
Kingston.....	48,432	16,005	43,527	874,999	95,578,469	13,661	583	0.92
◆Kingsville.....	3,040	1,261	2,238	46,560	4,281,458	1,106	323	1.09
◆Kirkfield.....	178	106	107	4,934	312,460	99	263	1.58
◆†Kirkland Lake (including Swastika).....	\$18,500	5,946	10,170	367,245	23,766,300	5,012	395	1.55
Kitchener.....	74,522	24,824	71,824	1,610,110	141,380,951	22,665	520	1.14
Lakefield.....	2,127	766	1,529	37,829	3,806,962	638	497	0.99
Lambeth.....	2,025	622	1,220	46,766	3,392,183	578	489	1.38
◆Lanark.....	900	286	384	10,653	1,047,580	268	326	1.02
◆Lancaster.....	597	207	321	8,741	814,492	190	357	1.07
Larder Lake Twp.....	2,007	572	1,033	40,830	3,248,155	520	521	1.26
◆Latchford.....	483	145	160	5,329	345,370	137	210	1.54
◆Leamington.....	8,930	3,323	6,749	144,513	11,235,339	3,008	311	1.29
◆Lindsay.....	11,119	3,945	9,414	206,751	19,278,905	3,602	446	1.07
◆Listowel.....	3,915	1,601	3,509	86,113	7,602,317	1,447	438	1.13
◆London.....	161,554	52,203	118,268	2,667,911	210,709,716	49,150	357	1.27
◆Long Branch.....	10,814	4,270	7,506	240,764	20,574,187	4,075	421	1.17
◆L'Orignal.....	1,206	377	451	20,671	1,327,954	356	311	1.56
◆Lucan.....	932	361	725	24,239	1,857,977	338	458	1.30
◆Lucknow.....	1,008	466	747	17,386	1,524,844	361	352	1.14
◆Lynden.....	527	170	361	11,282	947,223	162	487	1.19
◆Madoc.....	1,485	597	1,011	25,816	2,562,984	525	407	1.01
◆Magnetawan.....	254	107	98	5,821	291,990	103	236	1.99
◆Markdale.....	1,107	455	850	19,346	1,783,607	356	418	1.08
◆Markham.....	4,584	1,421	3,635	111,161	8,665,369	1,307	552	1.28
◆Marmora.....	1,302	521	825	26,314	2,134,388	482	384	1.23
◆Martintown.....	430	125	179	5,370	424,980	109	325	1.26
◆Massey.....	1,328	364	474	29,490	1,602,320	323	413	1.84
◆†Matachewan Twp.....	934	303	272	13,668	788,231	260	253	1.73
◆†Matheson.....	916	318	665	20,764	1,513,900	249	507	1.37
◆†Mattawa.....	3,235	831	1,452	64,696	3,353,700	705	396	1.93

For explanation of symbols see page 276.

## Utilities and Local Systems

## AND CONSUMPTION

December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
59,858	3,367,865	253	1,109	1.78	133,008	12,786,446	48	4,024	22,199	1.04
16,128	985,235	51	1,580	1.64	3,816	281,061	4	126	5,855	1.36
4,425	228,900	16	1,192	1.93	7,188	446,137	8	202	4,647	1.61
2,168	126,373	12	878	1.72	206	3,700	1	9	308	5.57
70,582	4,348,818	188	1,928	1.62	9,788	624,419	32	398	1,626	1.57
2,657	162,700	12	1,130	1.63	550	27,600	1	15	2,300	1.99
26,140	1,943,151	48	3,374	1.35	21,026	1,455,970	11	692	11,030	1.44
5,763	268,172	20	1,117	2.15	1,122	70,630	2	34	2,943	1.59
24,681	1,539,176	100	1,283	1.60	41,921	3,203,160	23	1,231	11,606	1.31
3,613	230,914	22	875	1.56						
742,130	64,066,882	2,110	2,530	1.16	428,949	47,673,106	234	14,574	16,978	0.90
28,707	1,844,327	120	1,281	1.56	24,575	1,521,805	35	1,087	3,623	1.61
913	31,430	7	374	2.90						
200,461	12,645,720	905	1,164	1.59	50,689	4,839,200	29	958	13,906	1.05
759,065	48,707,942	1,792	2,265	1.56	1,445,286	142,997,025	367	40,516	32,470	1.01
21,338	1,347,100	110	1,021	1.58	8,710	581,695	18	361	2,693	1.50
8,613	383,896	43	744	2.24	1,475	73,675	1	26	6,140	2.00
2,526	191,240	15	1,062	1.32	2,977	221,920	3	111	6,164	1.34
4,348	331,585	17	1,625	1.31						
10,950	587,835	49	1,000	1.86	1,682	179,100	3	31	4,975	0.94
2,115	147,190	7	1,752	1.44	5,248	374,141	1	154	31,178	1.40
87,853	5,666,617	235	2,009	1.55	138,340	12,348,646	80	3,809	12,863	1.12
95,173	6,453,005	253	2,125	1.47	177,409	18,758,600	90	5,430	17,369	0.95
40,987	2,695,860	117	1,920	1.52	41,719	2,972,767	37	1,325	6,695	1.40
1,477,347	112,551,013	2,531	3,706	1.31	2,016,601	225,200,587	522	58,879	35,952	0.90
65,318	4,604,136	171	2,244	1.42	94,157	7,728,114	24	2,943	26,834	1.22
6,056	393,445	18	1,822	1.54	1,133	33,947	3	57	943	3.34
5,834	336,744	18	1,559	1.73	3,200	154,300	5	113	2,572	2.07
10,682	643,637	93	577	1.66	11,892	611,235	12	318	4,245	1.95
2,275	131,560	5	2,193	1.73	2,188	94,285	3	83	2,619	2.32
14,504	1,023,538	60	1,422	1.42	5,667	298,080	12	233	2,070	1.90
1,054	48,550	4	1,011	2.17						
14,503	922,734	92	836	1.57	3,541	239,270	7	116	2,848	1.48
47,367	2,992,353	94	2,653	1.58	20,331	1,132,985	20	667	4,721	1.79
14,394	815,522	32	1,333	1.76	2,799	204,760	7	75	2,438	1.37
1,919	112,507	14	670	1.71	747	20,650	2	45	860	3.62
11,810	601,757	41	1,223	1.96						
4,593	274,400	43	532	1.67						
12,617	771,900	67	960	1.63	832	43,500	2	25	1,813	1.91
40,605	1,681,000	123	1,139	2.42	22,594	1,115,600	3	446	30,989	2.03

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Maxville.....	839	317	548	13,749	1,181,464	285	345	1.16
McGarry.....	2,904	490	1,136	37,869	3,102,787	435	594	1.22
Meaford.....	3,723	1,527	3,119	71,407	6,496,609	1,295	418	1.10
Merlin.....	607	254	372	7,805	583,982	190	256	1.34
◆Merrickville.....	880	358	492	16,818	1,365,275	338	337	1.23
◆Midland.....	8,718	2,902	9,064	137,945	16,561,845	2,685	514	0.83
Mildmay.....	869	317	561	14,404	1,352,302	242	466	1.07
◆Millbrook.....	861	335	529	19,225	1,579,256	318	414	1.22
◆Milton.....	5,488	1,784	4,501	123,524	10,203,639	1,623	524	1.21
◆Milverton.....	1,059	479	886	27,147	1,835,557	411	372	1.48
◆Mimico.....	17,566	6,808	9,696	324,644	32,075,290	6,508	411	1.01
◆Mitchell.....	2,243	917	2,123	54,345	4,152,996	824	420	1.31
◆Moorefield.....	313	137	295	5,677	487,797	123	330	1.16
◆Morrisburg.....	1,806	743	1,540	38,347	3,950,495	660	499	0.97
◆Mount Brydges.....	993	362	412	16,059	954,074	335	237	1.68
◆Mount Forest.....	2,576	1,025	2,166	56,442	5,103,940	921	462	1.11
◆Napanee.....	4,507	1,701	3,563	88,989	8,590,519	1,517	472	1.04
◆Neustadt.....	499	208	319	7,099	737,240	189	325	0.96
◆Newboro.....	284	148	112	6,167	328,941	137	200	1.87
Newburgh.....	552	193	278	10,862	719,769	165	364	1.51
◆Newbury.....	334	134	132	5,194	385,708	125	259	1.35
◆Newcastle.....	1,195	481	926	22,904	2,023,435	425	415	1.13
◆New Hamburg.....	2,129	718	1,443	43,677	3,773,038	650	484	1.16
◆†New Liskeard.....	4,717	1,627	3,603	119,833	7,713,100	1,334	482	1.55
Newmarket.....	8,087	2,739	7,491	163,674	15,388,654	2,358	544	1.06
◆New Toronto.....	11,717	3,960	28,406	221,869	20,511,517	3,679	465	1.08
Niagara.....	2,620	1,072	1,822	68,746	5,800,677	930	520	1.19
◆Niagara Falls.....	22,192	7,435	17,283	379,080	30,271,299	6,839	369	1.25
◆Nipigon Twp.....	2,687	741	1,728	40,498	4,531,421	675	559	0.89
North Bay.....	23,361	7,685	17,390	469,729	40,730,856	6,426	528	1.15
◆North York Twp.....	257,209	85,377	200,182	5,822,678	526,711,019	80,046	555	1.11
Norwich.....	1,687	691	1,029	37,689	2,913,690	571	425	1.29
◆Norwood.....	1,077	403	682	20,597	1,868,666	372	419	1.10
◆Oakville-Trafalgar.....	42,254	11,988	38,780	960,103	76,723,188	11,303	566	1.25
◆Oil Springs.....	481	230	286	7,012	496,183	181	228	1.41
Omeme.....	829	312	455	14,696	1,196,114	265	376	1.23
◆Orangeville.....	4,693	1,746	3,831	115,946	9,612,710	1,575	509	1.21
Orillia.....	14,635	5,490	5,625	263,381	27,081,500	4,682	482	0.97
◆Orono.....	845	370	601	20,216	1,629,410	346	392	1.24
◆Oshawa.....	61,350	19,850	69,959	1,039,077	124,813,072	17,931	580	0.83

For explanation of symbols see page 276.



Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
6,430	376,870	28	1,122	1.71	3,225	111,000	4	126	2,313	2.91
15,019	864,901	52	1,386	1.74	1,198	71,230	3	26	1,979	1.68
33,671	2,297,391	197	972	1.47	43,888	3,441,564	35	1,299	8,194	1.28
8,746	534,393	60	742	1.64	3,003	117,394	4	90	2,446	2.56
2,571	163,170	13	1,046	1.58	3,845	314,034	7	152	3,739	1.22
52,836	4,743,872	149	2,653	1.11	148,086	18,329,259	68	6,830	22,462	0.81
6,806	393,047	67	489	1.73	4,172	226,477	8	143	2,359	1.84
4,220	202,060	15	1,123	2.09	749	45,400	2	18	1,892	1.65
48,047	3,146,671	141	1,860	1.53	65,962	5,099,381	20	1,753	21,247	1.29
12,518	606,129	52	971	2.07	12,173	612,496	16	407	3,190	1.99
113,236	8,578,218	260	2,749	1.32	58,460	4,656,350	40	1,959	9,701	1.26
18,409	1,016,105	68	1,245	1.81	42,564	3,139,095	25	1,178	10,464	1.36
1,700	92,690	12	644	1.83	4,616	322,850	2	121	13,452	1.43
20,108	1,486,624	74	1,674	1.35	7,712	623,897	9	262	5,777	1.24
4,979	223,053	22	845	2.23	5,992	223,480	5	213	3,725	2.68
27,273	1,869,710	80	1,948	1.46	17,766	1,211,780	24	591	4,208	1.47
49,050	3,635,360	149	2,033	1.35	34,665	3,003,944	35	1,324	7,152	1.15
1,474	83,340	17	409	1.77	2,140	155,430	2	89	6,476	1.38
1,204	56,668	11	429	2.12						
3,919	149,250	24	518	2.63	3,358	153,250	4	105	3,193	2.19
1,290	76,060	8	704	1.70	206	4,560	1	12	380	4.53
12,864	805,891	45	1,049	1.60	10,583	856,188	11	294	6,486	1.24
13,720	777,881	50	1,296	1.76	21,807	1,479,728	18	630	6,851	1.47
82,111	4,159,700	275	1,261	1.97	47,578	3,333,400	18	1,139	15,432	1.43
123,246	8,141,902	332	2,043	1.51	87,016	8,041,628	49	2,605	13,676	1.08
143,111	11,446,136	245	3,893	1.25	861,924	113,407,782	36	24,640	262,518	0.76
24,540	1,376,411	126	910	1.78	6,783	433,472	16	214	2,258	1.56
361,010	29,510,416	546	4,504	1.22	239,526	24,707,878	50	7,338	41,180	0.97
23,067	2,086,391	62	2,804	1.11	12,740	1,821,686	4	361	37,952	0.70
315,484	22,850,734	1,129	1,687	1.38	139,830	12,314,229	130	4,177	7,894	1.14
2,998,533	202,834,976	4,624	3,000	1.48	1,776,769	171,135,266	707	57,583	14,800	1.04
16,148	781,545	110	592	2.07	3,767	185,932	10	123	1,549	2.03
6,346	406,626	26	1,303	1.56	4,114	193,510	5	175	3,225	2.13
293,127	20,853,486	490	3,547	1.41	767,925	95,900,360	195	17,577	40,983	0.80
1,573	66,770	16	348	2.36	8,168	878,216	33	175	2,218	0.93
5,087	220,258	42	437	2.31	3,834	276,685	5	89	4,611	1.39
37,676	2,535,045	123	1,718	1.49	32,516	2,671,621	48	1,343	4,638	1.22
168,675	12,980,088	666	1,624	1.30	301,006	30,801,552	142	11,955	18,076	0.98
5,303	343,026	21	1,361	1.55	2,991	229,652	3	96	6,379	1.30
440,810	37,384,655	1,643	1,896	1.18	1,417,008	180,514,938	276	45,076	54,503	0.78

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popu- lation	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Ottawa (including Eastview and Rockcliffe Park)...	289,236	90,604	194,655	4,569,588	604,238,556	79,277	635	0.76
Otterville .....	767	296	432	14,394	1,256,280	239	438	1.15
◆Owen Sound .....	17,732	6,228	12,505	353,553	34,071,452	5,778	491	1.04
Paisley .....	748	328	568	14,383	1,124,370	255	367	1.28
Palmerston .....	1,518	619	1,287	31,565	2,940,385	505	485	1.07
Paris .....	5,790	1,977	3,614	106,556	8,123,927	1,734	390	1.31
◆Parkhill .....	1,135	503	943	28,785	2,193,775	444	412	1.31
◆Parry Sound .....	6,137	2,068	2,529	133,771	10,572,846	1,880	469	1.27
◆Penetanguishene .....	4,664	1,397	2,956	64,458	6,924,111	1,284	449	0.93
◆Perth .....	5,663	2,023	4,447	99,734	9,843,336	1,839	446	1.01
Peterborough .....	46,803	15,043	38,332	920,886	87,629,081	13,339	547	1.05
◆Petrolia .....	3,670	1,319	1,900	52,194	3,320,836	1,105	250	1.57
◆Pickering .....	1,752	519	1,054	42,379	2,912,733	485	500	1.45
◆†Pickle Lake Landing Townsite .....	\$250	112	145	6,253	390,762	82	397	1.60
◆Picton .....	4,739	1,795	3,992	101,858	9,497,585	1,471	538	1.07
◆Plattsville .....	484	195	677	11,380	1,002,000	181	461	1.14
◆Point Edward .....	2,762	842	4,366	30,441	2,578,875	749	287	1.18
Port Arthur .....	43,384	14,061	45,389	741,289	88,868,466	12,347	600	0.83
◆Port Burwell .....	766	480	266	19,437	734,206	451	136	2.65
◆†Port Carling .....	*492	526	408	27,587	1,409,100	459	256	1.96
Port Colborne .....	14,949	4,704	7,357	194,190	14,513,338	4,125	293	1.34
◆Port Credit .....	6,736	2,818	13,262	158,716	15,021,429	2,650	472	1.06
Port Dover .....	3,037	1,574	2,464	49,060	3,522,865	1,344	218	1.39
Port Elgin .....	1,733	1,084	1,186	49,944	3,402,559	891	318	1.47
◆Port Hope .....	8,100	2,774	8,047	182,408	15,989,174	2,586	515	1.14
◆Port McNicoll .....	1,056	513	1,588	20,384	1,679,006	503	278	1.21
◆Port Perry .....	2,291	839	1,566	46,988	4,563,485	787	483	1.03
◆Port Rowan .....	789	298	317	10,626	720,510	266	226	1.47
◆Port Stanley .....	*1,457	1,138	1,019	52,488	3,426,980	1,079	265	1.53
◆†Powassan .....	1,042	369	690	25,691	1,844,200	293	525	1.39
◆Prescott .....	5,255	1,742	3,688	88,094	9,587,970	1,622	493	0.92
◆Preston .....	11,543	3,328	9,027	215,976	18,486,042	3,061	503	1.17
◆Priceville .....	150	62	59	2,745	130,730	55	198	2.10
Princeton .....	418	168	287	8,726	767,066	129	496	1.14
◆Queenston .....	506	175	409	12,180	1,234,565	168	612	0.99
◆Rainy River .....	1,140	452	586	39,477	1,519,769	419	302	2.60
◆†Red Lake Twp. ....	2,568	1,117	1,820	70,996	4,157,000	892	388	1.71
◆Red Rock .....	1,772	340	982	21,949	2,500,097	315	661	0.88
◆Renfrew .....	8,461	2,601	4,816	148,045	14,415,187	2,352	511	1.03
◆Richmond .....	1,188	347	724	25,443	2,173,225	336	539	1.17

For explanation of symbols see page 276.

**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
5,433,430	463,919,983	11,142	3,470	1.17	476,363	44,520,891	185	15,781	20,054	1.07
5,620	310,940	50	518	1.81	2,189	106,715	7	71	1,270	2.05
131,163	10,019,550	308	2,711	1.31	143,865	12,749,616	142	5,696	7,482	1.13
8,441	434,230	65	557	1.94	3,239	231,043	8	85	2,407	1.40
16,097	985,848	95	865	1.63	11,040	856,510	19	466	3,757	1.29
33,392	2,296,112	206	929	1.45	50,567	4,525,344	37	1,984	10,192	1.12
13,820	743,723	45	1,377	1.86	12,603	711,680	14	372	4,236	1.77
56,968	3,552,057	165	1,794	1.60	26,525	2,135,132	23	769	7,736	1.24
22,397	1,902,883	90	1,762	1.18	38,582	4,429,789	23	1,420	16,050	0.87
47,150	3,971,045	141	2,347	1.19	44,932	4,446,580	43	1,825	8,617	1.01
460,283	29,602,029	1,445	1,707	1.55	630,187	78,558,923	259	21,287	25,276	0.80
35,721	1,745,336	178	817	2.05	42,990	2,067,948	36	1,077	4,787	2.08
9,455	695,297	30	1,931	1.36	5,639	456,050	4	187	9,501	1.24
2,785	162,099	29	466	1.72	660	39,200	1	13	3,267	1.68
65,974	4,553,048	288	1,317	1.45	27,628	1,943,809	36	908	4,500	1.42
1,704	77,400	11	586	2.20	15,315	1,462,500	3	392	40,625	1.05
17,057	1,232,954	63	1,631	1.38	128,401	12,727,544	30	4,219	35,354	1.01
463,010	43,529,828	1,655	2,192	1.06	560,050	63,111,463	59	23,849	89,140	0.89
4,891	220,755	25	736	2.22	507	3,750	4	39	78	.....
15,430	729,500	61	997	2.12	1,446	121,500	6	53	1,688	1.19
115,110	6,404,806	491	1,087	1.80	87,128	7,586,248	88	2,793	7,184	1.15
74,846	5,526,392	157	2,933	1.35	361,206	54,474,245	11	8,204	412,684	0.66
30,319	1,869,979	193	807	1.62	48,145	4,693,295	37	1,446	10,570	1.03
27,227	1,406,793	179	655	1.94	12,794	725,308	14	327	4,317	1.76
57,480	4,056,427	144	2,347	1.42	155,955	16,341,549	44	4,616	30,950	0.95
3,063	192,410	8	2,004	1.59	28,568	1,426,320	2	909	59,430	2.00
12,341	889,783	38	1,951	1.39	5,414	333,906	14	231	1,988	1.62
5,937	382,432	29	1,099	1.55	703	28,010	3	26	778	2.51
11,087	623,890	42	1,238	1.78	7,391	305,704	17	323	1,499	2.42
12,653	700,600	72	811	1.81	968	34,700	4	34	723	2.79
38,192	2,695,157	102	2,202	1.42	35,176	3,388,110	18	1,263	15,686	1.04
51,409	3,274,911	153	1,784	1.57	231,000	19,482,072	114	7,804	14,241	1.19
810	46,500	7	554	1.74	.....	.....	.....	.....	.....	.....
3,582	206,271	36	477	1.74	1,432	62,165	3	55	1,727	2.30
5,372	399,909	7	4,761	1.34	.....	.....	.....	.....	.....	.....
12,740	455,890	29	1,310	2.79	3,274	166,873	4	57	3,477	1.96
46,009	2,862,103	215	1,109	1.61	10,612	400,100	10	280	3,334	2.65
13,208	1,044,807	24	3,628	1.26	1,582	181,000	1	56	15,083	0.87
55,396	4,166,268	187	1,857	1.33	81,822	8,413,405	62	3,033	11,308	0.97
8,161	490,973	11	3,719	1.66	.....	.....	.....	.....	.....	.....

Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Richmond Hill.....	17,242	4,845	11,203	368,387	28,642,641	4,585	521	1.29
Ridgetown.....	2,560	1,056	1,554	33,814	2,399,451	859	233	1.41
◆Ripley.....	443	218	359	10,750	898,300	199	376	1.20
◆Riverside.....	17,911	5,442	8,186	296,458	21,026,183	5,295	331	1.41
◆Rockland.....	2,980	728	1,270	40,652	3,471,353	687	421	1.17
◆Rockwood.....	857	290	488	19,410	1,479,981	270	457	1.31
Rodney.....	1,105	452	604	13,936	1,147,798	359	266	1.21
◆Rosseau.....	231	129	111	5,317	305,470	121	210	1.74
◆Russell.....	556	206	338	9,749	1,008,864	190	442	0.97
St. Catharines.....	83,736	26,140	87,471	1,158,619	88,860,619	23,462	420	1.30
◆St. Clair Beach.....	1,446	430	736	32,041	2,071,067	413	418	1.55
◆St. George.....	765	287	549	11,303	1,207,980	254	396	0.94
St. Jacobs.....	686	245	560	13,265	1,116,072	195	477	1.19
◆St. Mary's.....	4,515	1,675	10,842	105,555	8,859,117	1,537	480	1.19
◆St. Thomas.....	22,191	7,936	16,835	485,922	37,621,854	7,417	423	1.29
◆Sandwich East Twp.....	21,954	6,247	7,440	366,506	17,248,881	5,954	241	2.12
◆Sandwich West Twp.....	28,436	7,871	14,335	570,063	33,952,615	7,474	379	1.68
◆Sarnia.....	50,265	15,669	134,646	791,016	59,377,748	14,657	338	1.33
◆Scarborough Twp.....	208,864	64,904	163,880	4,407,534	377,773,701	61,744	510	1.17
◆Schreiber Twp.....	2,210	675	1,476	39,437	4,606,157	634	605	0.86
◆Seaforth.....	2,192	891	1,904	46,500	3,950,465	782	421	1.18
◆Shelburne.....	1,295	585	1,010	29,199	2,373,630	528	375	1.23
◆Simcoe.....	8,625	3,207	8,086	121,168	12,168,675	2,868	354	1.00
Sioux Lookout.....	2,692	949	1,890	72,536	5,084,822	805	526	1.43
Smith's Falls.....	9,209	3,382	8,077	177,455	17,553,254	2,902	504	1.01
Smithville.....	871	374	559	13,540	959,963	275	291	1.41
Southampton.....	1,769	1,199	1,089	42,558	3,181,355	1,058	251	1.34
◆†South Porcupine Townsite..	\$5,700	1,940	2,607	99,357	6,517,900	1,656	328	1.52
◆†South River.....	1,032	330	251	14,841	479,499	303	176	3.10
◆Springfield.....	517	182	272	8,393	738,487	172	358	1.14
Stamford Twp.....	30,470	9,141	17,617	589,814	45,689,665	8,423	452	1.29
◆Stayner.....	1,658	676	1,227	30,881	2,845,999	606	397	1.09
◆Stirling.....	1,296	546	1,105	30,231	2,722,445	485	468	1.11
◆Stoney Creek.....	6,387	2,006	4,357	144,348	13,229,639	1,898	581	1.09
◆Stouffville.....	3,216	1,096	2,333	84,095	6,280,992	1,015	516	1.34
Stratford.....	20,536	6,967	16,978	431,214	37,507,517	6,132	510	1.15
◆Strathroy.....	5,110	1,822	3,829	96,995	8,577,500	1,623	440	1.13
Streetsville.....	5,180	1,504	3,627	103,558	7,586,964	1,319	479	1.36
◆Sturgeon Falls.....	6,328	1,650	2,796	101,138	7,475,269	1,547	403	1.35
Sudbury.....	79,281	23,290	45,413	1,514,705	135,269,891	20,940	538	1.12

†Nine months' operation.

For explanation of symbols see page 276.



**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
123,714	8,092,715	205	3,290	1.53	95,634	7,247,386	55	2,655	10,981	1.32
26,612	1,512,300	167	755	1.76	30,262	1,943,140	30	899	5,398	1.56
3,091	170,020	16	886	1.82	1,919	98,200	3	67	2,728	1.95
50,325	3,443,039	115	2,495	1.46	44,688	3,241,068	32	1,520	8,440	1.38
10,657	690,170	37	1,554	1.54	1,591	155,968	4	72	3,249	1.02
3,731	223,190	19	979	1.67	1,321	49,500	1	42	4,125	2.67
8,269	574,313	82	584	1.44	6,794	306,270	11	247	2,320	2.22
1,913	106,450	8	1,109	1.80						
2,207	160,931	13	1,032	1.37	623	36,200	3	37	1,006	1.72
676,239	40,267,388	2,363	1,700	1.68	2,058,230	240,638,096	315	57,903	70,000	0.86
3,766	216,560	11	1,641	1.74	2,941	109,450	6	115	1,520	2.69
4,877	397,611	26	1,274	1.23	6,143	501,320	7	205	5,968	1.23
8,394	469,076	41	953	1.79	6,330	234,612	9	254	2,172	2.70
28,310	1,854,847	95	1,627	1.53	351,226	50,231,055	43	9,122	97,347	0.70
177,055	12,628,822	403	2,611	1.40	303,232	29,787,217	116	8,869	21,399	1.02
113,471	5,880,510	232	2,112	1.93	121,608	5,565,233	61	3,138	7,603	2.19
191,807	11,342,702	327	2,891	1.69	119,664	7,987,753	70	2,799	9,509	1.50
410,423	27,998,628	837	2,788	1.47	5,459,092	929,671,559	175	117,916	442,701	0.59
1,724,846	133,269,681	2,827	3,928	1.29	1,610,826	161,766,366	333	46,597	40,482	1.00
12,044	1,028,095	40	2,142	1.17	3,236	423,200	1	98	35,267	0.76
24,135	1,455,772	86	1,411	1.66	19,414	1,367,423	23	683	4,954	1.42
12,451	802,470	44	1,520	1.55	6,037	318,810	13	252	2,044	1.89
100,788	7,541,809	257	2,445	1.34	157,850	16,211,918	82	5,207	16,476	0.97
45,268	1,858,997	137	1,131	2.44	11,540	1,150,340	7	222	13,695	1.00
112,684	8,899,430	448	1,655	1.27	47,071	5,033,039	32	1,691	13,107	0.94
12,542	605,782	84	601	2.07	13,465	785,937	15	412	4,366	1.71
18,986	986,254	127	647	1.93	18,090	1,095,480	14	513	6,521	1.65
48,728	2,612,356	276	789	1.87	3,832	257,700	8	126	2,684	1.49
6,444	246,865	23	1,193	2.61	4,776	246,238	4	93	6,840	1.94
1,489	115,560	7	1,376	1.29	1,604	53,125	3	96	1,476	3.02
224,677	10,996,681	612	1,497	2.04	234,123	21,581,619	106	7,432	16,967	1.08
11,247	738,158	52	1,008	1.52	9,435	823,082	18	363	3,811	1.15
9,357	556,217	43	1,078	1.68	7,272	491,212	18	301	2,274	1.48
37,519	2,787,941	90	2,581	1.35	8,819	569,509	18	350	2,637	1.55
30,925	1,580,803	67	1,966	1.96	13,346	595,503	14	402	3,545	2.24
202,676	13,839,028	683	1,689	1.46	265,573	25,159,519	152	8,973	13,794	1.06
45,125	3,168,864	145	1,821	1.42	61,179	4,610,304	54	2,194	7,115	1.33
38,501	2,172,343	161	1,124	1.77	42,994	4,148,992	24	1,209	14,405	1.04
41,564	2,527,243	87	2,421	1.64	6,479	529,046	16	183	2,755	1.22
755,580	45,156,193	2,080	1,809	1.67	225,448	17,290,881	270	7,117	5,337	1.30

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆Sunderland.....	593	262	458	12,546	1,158,462	239	404	1.08
◆Sundridge.....	796	298	392	16,165	1,105,250	269	342	1.46
◆Sutton.....	1,301	894	1,072	34,624	2,856,000	731	326	1.21
◆Swansea.....	9,512	3,528	6,606	187,025	19,415,142	3,371	480	0.96
◆Tara.....	491	233	489	10,742	945,090	210	375	1.14
◆Tavistock.....	1,220	513	900	28,749	2,393,974	403	495	1.20
◆Tecumseh.....	4,462	1,341	1,559	69,670	4,019,781	1,278	262	1.73
◆Teeswater.....	884	360	770	17,333	1,522,915	325	390	1.14
◆Terrace Bay Twp.....	1,922	438	1,532	33,550	4,943,025	407	1,012	0.68
◆Thamesford.....	1,074	387	888	29,107	2,170,237	365	495	1.34
◆Thamesville.....	1,041	441	823	15,306	1,097,619	387	236	1.39
◆Thedford.....	749	329	540	14,208	1,289,382	297	362	1.10
◆Thessalon.....	1,788	519	790	32,638	1,886,943	434	362	1.73
◆Thornbury.....	1,141	539	1,062	26,571	1,743,280	436	333	1.52
◆Thornedale.....	417	136	266	9,830	731,543	128	476	1.34
◆†Thornloe.....	193	40	45	2,470	158,040	29	454	1.56
◆Thornton.....	323	104	153	5,665	439,430	91	402	1.29
◆Thorold.....	8,602	2,674	14,379	143,840	10,924,623	2,396	380	1.32
◆Tilbury.....	3,086	1,042	1,489	38,249	2,458,830	928	221	1.56
◆Tillsonburg.....	6,605	2,519	5,932	116,477	9,032,442	2,198	342	1.29
◆†Timmins (including Schumacher).....	\$32,000	9,760	16,162	606,369	42,890,300	8,431	424	1.41
◆Toronto (including Leaseide)	661,785	210,321	613,270	11,830,658	940,379,960	176,770	443	1.26
◆Toronto Twp.....	63,175	16,491	57,711	1,302,395	112,783,690	15,711	598	1.15
◆Tottenham.....	752	273	468	15,616	1,420,445	247	479	1.10
◆Trenton.....	12,945	4,249	15,954	230,906	24,179,338	3,929	513	0.95
◆Tweed.....	1,818	641	1,274	26,447	3,183,414	570	465	0.83
◆Uxbridge.....	2,374	912	1,815	46,944	4,538,879	823	460	1.03
◆Vankleek Hill.....	1,723	556	782	26,864	1,822,893	506	300	1.47
◆Victoria Harbour.....	1,036	503	396	20,237	1,187,788	466	212	1.70
◆Walkerton.....	3,933	1,350	3,389	69,123	6,233,535	1,232	422	1.11
◆Wallaceburg.....	7,957	2,748	8,099	84,507	6,801,405	2,425	234	1.24
◆Wardsville.....	331	151	216	5,280	400,987	117	286	1.32
◆Warkworth.....	537	238	338	10,704	923,583	223	345	1.16
◆Wasaga Beach.....	*506	1,034	307	29,875	1,237,370	829	124	2.41
◆Waterdown.....	1,858	593	1,180	41,866	3,480,944	501	579	1.20
◆Waterford.....	2,234	812	1,171	42,870	2,933,448	770	317	1.46
◆Waterloo.....	21,665	6,640	19,096	422,876	41,623,351	6,030	575	1.02
◆Watford.....	1,234	529	1,402	26,815	2,268,501	471	401	1.18
◆Waubashene.....	\$1,400	447	328	15,236	899,006	419	179	1.69
◆Webbwood.....	560	149	176	11,313	418,741	121	288	2.70

For explanation of symbols see page 276.

**Utilities and Local Systems  
AND CONSUMPTION  
December 31, 1961**

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE						
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Av- erage cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers monthly loads billed	Monthly consumption per customer	Av- erage cost per kwh	
\$	kwh	No.	kwh	c	\$	kwh	No.	kw	kwh	¢	
3,687	196,725	19	863	1.87	3,428	211,446	4	111	4,405	1.62	
8,077	436,270	26	1,398	1.85	1,287	58,300	3	42	1,619	2.21	
23,167	1,378,195	152	756	1.68	5,463	277,290	11	173	2,101	1.97	
67,552	4,996,064	137	3,039	1.35	66,293	7,604,209	20	2,017	31,684	0.87	
3,317	211,710	17	1,038	1.57	7,588	816,530	6	183	11,341	0.93	
11,875	604,414	101	499	1.96	9,444	598,170	9	279	5,539	1.58	
15,755	896,661	52	1,437	1.76	10,859	871,512	11	303	6,602	1.25	
5,421	313,585	27	968	1.73	11,646	994,310	8	352	10,357	1.17	
15,757	1,616,520	29	4,645	0.97	4,065	636,000	2	116	26,500	0.64	
3,446	171,030	17	838	2.01	11,103	994,986	5	238	16,583	1.12	
9,217	623,696	37	1,405	1.48	18,159	873,150	17	691	4,280	2.08	
4,296	286,460	25	955	1.50	3,432	333,700	7	102	3,973	1.03	
20,353	995,401	79	1,050	2.04	4,462	295,936	6	99	4,110	1.51	
13,603	618,215	84	613	2.20	17,388	1,132,995	19	570	4,969	1.53	
1,063	50,104	6	696	2.12	2,180	80,206	2	86	3,342	2.72	
1,418	49,300	11	373	2.88							
1,245	43,230	13	277	2.88							
47,824	3,089,172	232	1,110	1.55	380,502	53,188,219	46	10,076	96,355	0.72	
25,492	1,528,654	87	1,464	1.67	29,287	1,371,010	27	1,135	4,232	2.14	
102,367	6,950,600	268	2,161	1.47	74,244	6,043,807	53	2,315	9,503	1.23	
318,359	18,813,400	1,295	1,211	1.69	29,384	1,842,400	34	832	4,516	1.59	
9,354,387	639,703,200	26,472	2,014	1.46	16,221,634	1,620,656,199	7,079	429,811	19,078	1.00	
419,444	29,209,982	585	4,161	1.44	1,529,753	181,301,843	195	35,972	77,479	0.84	
3,797	203,845	21	809	1.86	2,009	173,281	5	55	2,888	1.16	
90,773	7,188,497	242	2,475	1.26	388,585	55,070,311	78	10,993	58,836	0.71	
12,398	1,072,519	57	1,568	1.16	7,770	677,361	14	369	4,032	1.15	
16,844	1,061,994	65	1,362	1.59	24,738	1,362,011	24	865	4,729	1.82	
10,439	605,542	39	1,294	1.72	4,849	156,537	11	219	1,186	3.10	
4,776	215,992	35	514	2.21	718	39,640	2	19	1,652	1.84	
34,673	2,291,382	98	1,948	1.51	33,887	2,831,500	20	1,099	11,798	1.20	
62,334	4,761,220	232	1,710	1.31	235,587	28,861,277	91	7,282	26,430	0.82	
5,937	314,082	34	770	1.89							
2,385	148,226	15	823	1.61							
26,483	1,175,330	204	480	2.25	372	12,000	1	13	1,000	3.10	
13,655	737,570	75	820	1.85	4,517	264,090	17	166	1,295	1.71	
11,343	652,720	30	1,813	1.74	11,813	588,830	12	394	4,089	2.01	
214,943	13,870,167	531	2,177	1.55	282,114	28,145,662	79	7,882	29,690	1.00	
13,104	736,208	45	1,363	1.78	29,950	2,318,738	13	912	14,864	1.29	
5,200	281,930	25	940	1.84	2,662	93,350	3	65	2,593	2.85	
5,501	159,314	27	492	3.45	586	52,700	1	10	4,392	1.11	

**Municipal Electrical  
CUSTOMERS, REVENUE,  
for the Year Ended**

Municipality	Popula- tion	Total customers	Peak load Decem- ber 1961	RESIDENTIAL SERVICE (including flat-rate water-heaters)				
				Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh
	No.	No.	kw	\$	kwh	No.	kwh	¢
◆ Welland .....	35,963	10,635	25,691	307,154	21,675,682	9,969	300	1.42
◆ Wellesley .....	644	287	420	14,962	1,090,820	227	400	1.37
◆ Wellington .....	1,007	508	603	19,853	1,839,764	475	323	1.08
◆ West Ferris Twp. ....	5,428	1,947	4,366	138,497	9,876,382	1,814	454	1.40
◆ West Lorne .....	1,150	439	1,087	18,811	1,306,694	392	278	1.44
◆ Weston .....	9,394	3,715	9,719	210,499	19,234,817	3,319	483	1.09
◆ Westport .....	713	301	422	12,104	1,151,940	275	349	1.05
◆ Wheatley .....	1,336	488	853	20,099	1,336,142	397	280	1.50
◆ Whitby .....	12,895	3,846	12,468	238,660	21,360,145	3,491	510	1.12
◆† White River .....	818	264	495	26,074	1,013,739	208	406	2.57
◆ Wiarton .....	2,039	793	1,384	45,810	3,758,938	711	441	1.22
◆ Williamsburg .....	350	140	251	4,840	552,470	104	443	0.88
◆ Winchester .....	1,381	574	1,211	29,546	2,506,192	519	426	1.18
◆ Windermere .....	*118	121	100	5,230	318,430	109	243	1.64
◆ Windsor .....	114,970	37,305	80,547	1,452,654	130,217,000	34,555	314	1.12
◆ Wingham .....	2,875	1,078	2,566	59,057	6,072,407	959	528	0.97
◆ Woodbridge .....	2,325	780	2,227	52,778	4,897,143	720	567	1.08
◆ Woodstock .....	20,303	6,995	19,085	433,243	38,984,284	6,500	500	1.11
◆ Woodville .....	394	200	266	9,372	619,939	159	325	1.51
◆ Wyoming .....	889	341	422	10,534	804,577	310	216	1.31
◆ York Twp. ....	124,429	41,066	68,917	2,132,314	216,621,823	39,229	460	0.98
◆ Zurich .....	718	305	496	15,619	1,085,280	246	368	1.44

◆ New municipal retail rate structure

◆ and with small commercial customers transferred to residential billing

† Local system

\* Excluding summer population

§ Estimated



## Utilities and Local Systems

## AND CONSUMPTION

December 31, 1961

COMMERCIAL SERVICE (including flat-rate water-heaters)					INDUSTRIAL POWER SERVICE					
Revenue	Consumption	Cus- tomers	Monthly consumption per customer	Average cost per kwh	Revenue	Consumption	Cus- tomers	Average of cus- tomers' monthly loads billed	Monthly consumption per customer	Average cost per kwh
\$	kwh	No.	kwh	¢	\$	kwh	No.	kw	kwh	¢
198,360	12,692,835	481	<i>1,900</i>	1.56	583,223	63,342,181	185	16,490	<i>30,000</i>	0.92
6,161	321,470	53	505	1.92	2,503	114,590	7	81	1,364	2.18
3,865	213,014	18	986	1.81	4,502	228,362	15	172	1,269	1.97
51,045	3,072,962	118	2,170	1.66	52,296	5,226,030	15	1,352	29,034	1.00
9,813	505,987	35	1,205	1.94	29,094	1,946,721	12	760	13,519	1.49
136,384	10,072,056	358	2,345	1.35	155,313	14,012,290	38	4,257	30,729	1.11
6,479	445,950	24	1,548	1.45	358	5,476	2	29	228	6.54
18,875	924,420	76	1,014	2.04	17,120	809,627	15	479	4,498	2.11
92,225	6,444,212	310	1,732	1.43	233,761	27,466,472	45	7,003	50,864	0.85
16,319	688,100	55	1,043	2.37	6,121	435,400	1	75	36,283	1.41
19,531	1,248,722	66	1,577	1.56	11,082	761,056	16	357	3,964	1.46
4,363	303,848	35	723	1.44	261	16,690	1	6	1,391	1.57
11,449	762,491	44	<i>876</i>	1.50	22,901	2,461,235	11	593	18,646	0.93
2,740	148,760	12	1,033	1.84						
877,032	67,298,057	1,979	2,834	1.30	1,860,293	171,565,072	771	61,732	18,544	1.08
24,818	1,717,683	83	1,725	1.44	36,553	2,876,313	36	1,270	6,658	1.27
17,426	1,193,105	48	2,071	1.46	37,660	3,463,639	12	1,106	24,053	1.09
143,745	10,495,487	356	2,457	1.37	377,285	40,589,850	139	11,635	24,334	0.93
3,860	154,559	38	339	2.50	1,279	42,830	3	39	1,190	2.99
4,597	310,105	24	1,077	1.48	8,748	442,975	7	307	5,274	1.97
564,404	44,359,107	1,294	2,857	1.27	703,866	70,818,409	543	23,576	10,868	0.99
9,836	412,566	54	637	2.38	2,062	133,450	5	48	2,224	1.55

## NOTE

The figures shown in italics under the heading "Monthly consumption per customer" have been estimated to allow for the transfer of small commercial customers to residential service and/or certain power service customers to commercial service.

LIST OF ABBREVIATIONS

A.M.E.U.—Association of Municipal Electrical Utilities	M.E.U. —Municipal Electrical Utilities
bhp —brake horsepower	min —minimum
cfs —cubic feet per second	—minute (20-min)
C.L.C. —Canadian Labour Congress	N.O.P. —Northern Ontario Properties
ehv —extra-high voltage	O.M.E.A.—Ontario Municipal Electric Association
G.S. —Generating Station	R.O.A. —Rural Operating Area
hp —horsepower	R.P.D. —Rural Power District
Jct. —Junction	rpm —revolutions per minute
kv —kilovolt(s)	S.O.S. —Southern Ontario System
kva —kilovolt-ampere(s)	S.S. —Switching Station
kvar —kilovar(s)	T.S. —Transformer Station
kw —kilowatt(s)	Twp. —Township
kwh —kilowatt-hour(s)	

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In the index all page references to tables or graphs are in italic type figures. The code letters refer to statements in the text as follows:

- A* = Statements "A" and "B"—Financial Statements of the Municipal Electrical Utilities  
*C* = Statement "C"—Rates and Typical Bills for Electrical Service in Municipal Electrical Utilities and Local Systems  
*D* = Statement "D"—Customers, Revenue, and Consumption in Municipal Electrical Utilities and Local Systems  
*P* = Statement of the Allocation of the Cost of Primary Power  
*S* = Statement of Sinking Fund Equity

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